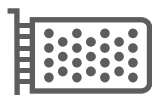


PRODUCT CATALOG



**AC-DC
Power Module**



**Switching
Power Supply**



**DC-DC
Converter**



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ABOUT ARCH ELECTRONICS CORP.

ARCH Electronics Co., Ltd., established in 1986, specializes in the R&D, design, and manufacturing of AC/DC power modules and switching power supplies. With 40 years of expertise, Arch serves customers across Europe, America, and the Asia-Pacific region, offering innovative products known for their compact size, high power density, excellent thermal management, and high efficiency.

Our AC-DC power modules range from 2W to 150W, and our switching power supplies range from 40W to 1300W, covering sectors such as industrial automation, smart home, medical, communication, and information technology.

ARCH operates manufacturing facilities in Taiwan, ensuring high quality standards while enabling flexible low-volume, high-mix production and customized solutions to meet evolving market demands.



40 Years of Experience



Fast Response to Inquiry



High-Mix, Low-Volume



Cost - Effective



Higher Power Density



High Quality



High Reliability

MILESTONE

1986

ARCH Established with Relabeling Service

1989

Business Expanded into European Market

1999

ISO-9001 Certificate

2004

Acquired ISO-14001 Certificate

2005

Business Expanded into American Market

2006

Business Expanded into Southeast Asia Market

2017

- Medical / ITE Switching PSU up to 700W
- ISO13485 Certification



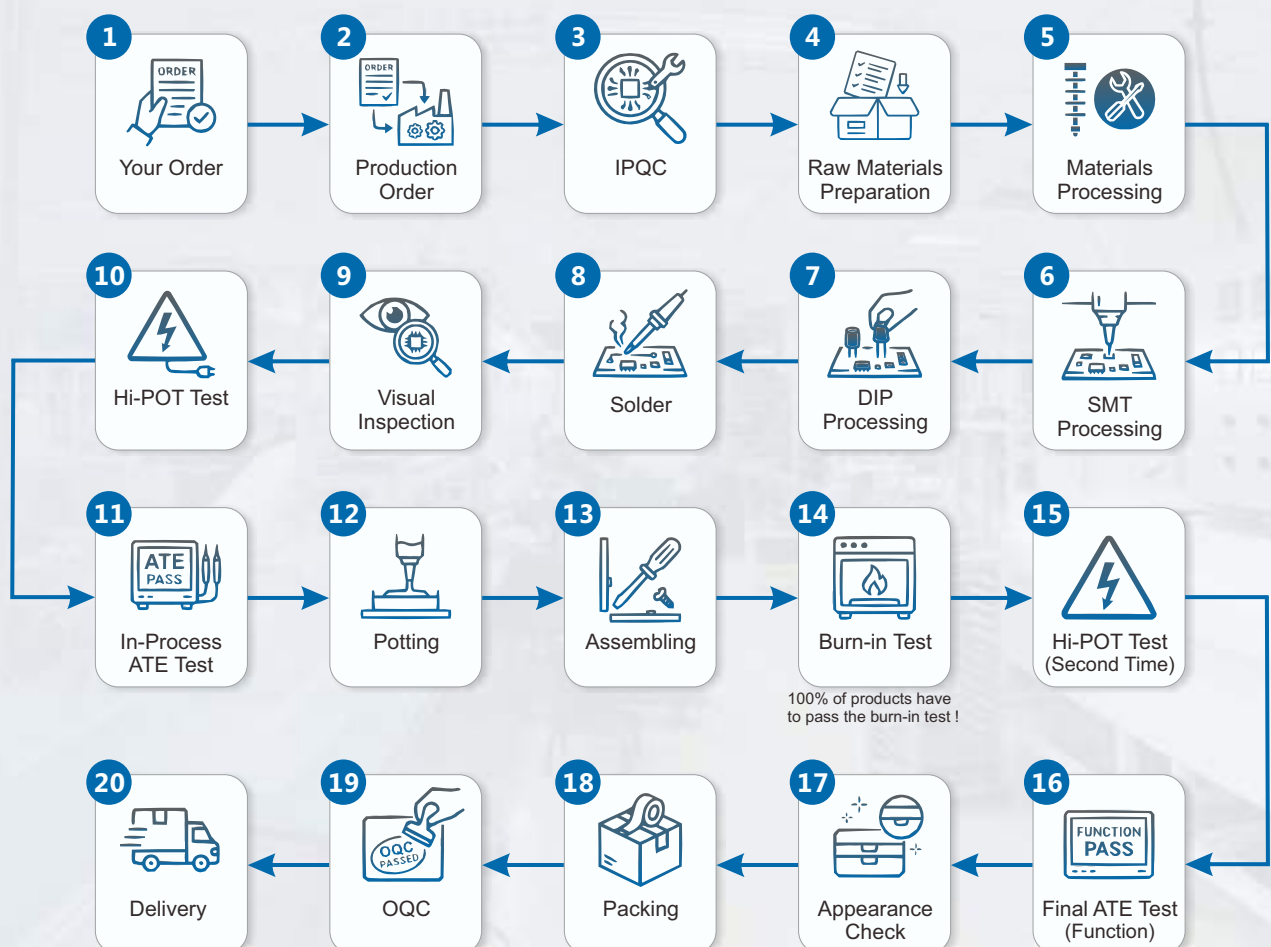
Value-Added Modification Services

For nearly 40 years, ARCH has delivered reliable power solutions to customers worldwide. Beyond our standard product portfolio, we offer value-added modification services to meet application-specific requirements.

Leveraging proven product platforms and experienced engineering resources, we can customize electrical specifications, protection functions, mechanical configurations, and other application-related features. This approach allows customers to achieve their design objectives with lower development costs, reduced risks, and faster time-to-market compared with a fully customized solution.

By combining flexibility with proven reliability, ARCH helps customers bring innovative products to market more efficiently and competitively.

PRODUCTION FLOWCHART



2020

Compliant with IEC/UL/EN 62368

2021

- 1000W TE Switching PSU
- AC-DC OVC III Power Module

2023

Automatic Equipment into TW Based Factory

2024

- Expand Production Capacity
- AC-DC OVC IV Power Module

2025

HIGH Power Switching PSU

2026

- Global Website Relaunch & Multilingual Expansion

2027

Next-Generation ARF Power Platform Launch

COMPACT POWER, GLOBAL REACH

PRODUCT LINE'S

 **AC-DC ITE Power Module**
2 Watts ~ 150 Watts

 **AC-DC Household Power Module**
5 Watts ~ 60 Watts

 **AC-DC Medical Power Module**
15 Watts ~ 150 Watts

 **AC-DC ITE Switching Power Supply**
40 Watts ~ 1300 Watts

 **AC-DC Medical Switching Power Supply**
120 Watts ~ 700 Watts

 **DC-DC Converter**
6 Watts ~ 60 Watts

CERTIFICATIONS



9001:2015
14001:2015
13485:2016



ADVANTAGES

1 Rugged Design



Small Size Design



Fan-less Design



Semi-Potted Design

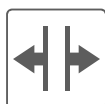


I/O Isolation up to 4300VAC Design (5700VAC max)



5000m Altitude

2 Wide Operating Range



Wide Input Voltage Range

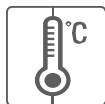


Wide Temperature

3 Power Protection



Over Voltage Protection



Over Temperature Protection



Over Current Protection



Short Circuit Protection

4 ITE OVC III / IV



ITE OVC III



ITE OVC IV

New Products

AC-DC ITE Power Module

Output Power (W)	5	10	15	20	40	65
Series	BUC05	BVC10	BDC15	BFC20	BTC40	ARCV65
Series Picture						
Input Voltage (Vac)	85~305	85~305	85~305	85~305	85~305	90~305
Output Voltage (Vdc)	5, 12, 15, 24	5, 12, 15, 24	5, 12, 15, 24	5, 12, 15, 24	5, 12, 15, 24, 48	12, 15, 24
Operating Temp. (°C)	-40 to +85	-40 to +85	-40 to +75	-40 to +85	-40 to +85	-40 to +85
Dimensions (L x W x H)	inches: 1.0 x 1.0 x 0.693 mm: 25.4 x 25.4 x 17.6	1.575 x 1.0 x 0.827 40.0 x 25.4 x 21.0	1.874 x 1.055 x 0.925 47.6 x 26.8 x 23.5	2.125 x 1.153 x 0.933 54.0 x 29.3 x 23.7	2.736 x 1.535 x 1.004 69.5 x 39.0 x 25.5	2.92 x 1.85 x 0.91 74.2 x 47.0 x 23.1
Safety	UL/IEC/EN 62368-1	UL/IEC/EN 62368-1 Meet Note(1)	UL/IEC/EN 62368-1	UL/IEC/EN 62368-1	UL/IEC/EN 62368-1	UL/IEC/EN 62368-1 Meet Note(2)
Feature	 <0.25W  4000  5000m	 <0.1W  4200  4000m	 <0.3W  4000  5000m	 <0.15W  4000  5000m	 4200  5000m	 <0.1W  4300  5000m
Page	13	16	18	23	28	31

★ Meet Note (1): IEC 61558-1, IEC 61558-2-16

★ Meet Note (2): IEC/EN 61558-1, IEC/EN 61558-2-16, IEC/EN 60335-1

AC-DC ITE Switching Power Supply

Output Power (W)	65	120	220	320	750
Series	BQF65	BQF120	ARF2200 / ARF220E	ARF3200 / ARF320E	ARF7500 / ARF750E
Series Picture					
Input Voltage (Vac)	80~264	90~264	90~264	90~264	90~264
Operating Temp. (°C)	-20 to +70	-40 to +85	-40 to +80	-40 to +85	-40 to +85
Cooling Method					
Output Voltage (Vdc)	12, 24	12, 24, 48	12, 24, 48	12, 24, 48	12, 24, 48
Dimensions (L x W x H)	inches: 3.0 x 2.0 x 0.945 mm: 76.2 x 50.8 x 24.0	3.0 x 2.0 x 1.3 76.2 x 50.8 x 33.0	O: 3.0 x 2.0 x 1.26 76.2 x 50.8 x 32.0 E: 3.15 x 2.37 x 1.38 80.0 x 60.0 x 35.0	O: 4.0 x 2.0 x 1.32 101.6 x 50.8 x 33.5 E: 4.09 x 2.28 x 1.398 104.0 x 57.9 x 35.5	O: 5.0 x 3.0 x 1.6 130.0 x 76.2 x 41.0 E: 5.12 x 3.27 x 1.6 130.0 x 83.0 x 41.0
Safety	EN 62368-1	UL/IEC/EN 62368-1	UL/IEC/EN 62368-1 ★ Meet Note(3)	UL/IEC/EN 62368-1 ★ Meet Note(3)	UL/IEC/EN 62368-1
Feature	 <0.1W  4000  4000m	 <0.5W  4000  <0.1mA	 <0.3W  4300  	 <0.3W  4250  	 4250  
Page	52	58	64	70	76

Cooling Method:  - Natural Convection  - Forced Air  - Conduction Cooled

★ Meet Note (3): IEC/EN/UL 60601-1 (3.2Version)

DC-DC Converter

Output Power (W)	6	10	30	60	3.3~15 (1A)	3.3~15 (1A)
Series	BF06	BA10	BC30	BE60	BR78	HR78
Series Picture						
Input Voltage (Vdc)	24V (9~36) 48V(18~75)	24V (9~36) 48V(18~72)	24V (9~36) 48V(18~75)	24V (9~36) 48V(18~75)	24V (X~34) X=6,8,10,13,15,20	24V (X~36) X=6,8,10,13,16,18
Output Voltage (Vdc)	3.3, 5, 12, 15, 24 ±5, ±12, ±15	5, 12, 15, 24	3.3, 5, 12, 15, 24	5, 12, 15, 24	3.3, 5, 6.5, 9, 12, 15	3.3, 5, 6.5, 9, 12, 15
Dimensions (L x W x H)	inches: 1.24 x 0.79 x 0.402 mm: 31.6 x 20.3 x 10.2	0.87 x 0.37 x 0.472 22.0 x 9.5 x 12.0	1.0 x 1.0 x 0.492 25.4 x 25.4 x 12.5	2.0 x 1.0 x 0.464 50.8 x 25.4 x 11.8	0.45 x 0.354 x 0.69 11.5 x 9.0 x 17.5	0.457 x 0.297 x 0.4 11.6 x 7.55 x 10.16
Safety	EN 62368-1	EN 62368-1	—	EN 62368-1	EN 62368-1	EN 62368-1
Feature	 <0.12W  3000 	 <0.05W  2250 	 1600 	 <0.7W  1600 	 <0.2W  	 <0.2W  
Page	92	93	94	95	96	97

Feature:  - No Load Power Consumption  - I/O Isolation(Vdc)  - Altitude Application  - LED Indicator for Power On  - Extremely Low Leakage Current

 - Over-Voltage Category OVC III  - 150% Peak Load (3 Sec)  - Active PFC Function  - EMI for Both Class I (with PE) and Class II (without PE) Configuration

 - I/O Isolation(Vdc)  - Wide Input Voltage range (4:1)  - Remote ON/OFF Control for Option  - Output Fast Start Up  - High Efficiency

 - Good EMI Performance  - Non-Isolated & Regulated Single Output  - SIP-3 Package

Product Selection Guide

(NEW) - New Products ✓ - Focus Products 🏠 - ITE 🏡 - Household 🏥 - Medical

AC-DC ITE Power Module

Output Power (W)		Series	Input Voltage (Vac)	OVC		Output Type			Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page
				III	IV	S	D	T				L	W	H	
5W ~ 15W															
Compliant with UL/IEC/EN 62368-1 (Model dependent)															
4		AOC AOC	90~264 90~305						3.3, 5, 8, 9, 12, 14, 15, 24 5/3.3, 8/5, 12/5	3000	-40~+70	1.45 37.0	1.08 27.5	0.69 17.5	10
5		AHC	90~264						3.3, 5, 12, 15, 24	3000	-25~+70	2.0 51.2	1.0 25.8	0.6 15.4	11
		AHCH05 	90~305						3.3, 5, 12, 24	4000	-40~+85	2.04 51.8	1.04 26.4	0.65 16.5	12
		AOCH05  	90~305						3.3, 5, 12, 24	4000	-40~+70	1.46 37.0	1.08 27.5	0.69 17.5	34
		BUC05 	85~305						5, 12, 15, 24	4000	-40~+85	1.0 25.4	1.0 25.4	0.693 17.6	13
7		AUC	90~264						5, 12, 15, 24	3000	-40~+70	1.08 27.4	1.08 27.4	0.736 18.7	14
10		AHCH10	90~305						5, 12, 15, 24	4000	-40~+85	2.055 52.2	1.055 26.8	0.75 19.0	15
		AOCH10  	90~305						5, 12, 15, 24	4000	-40~+70	1.46 37.0	1.08 27.5	0.79 20.0	35
		BVC10 	85~305						5, 12, 15, 24	4200	-40~+85	1.575 40.0	1.0 25.4	0.827 21.0	16
15		AVC	90~264						5, 12, 15, 24	4000	-40~+70	1.62 41.2	1.07 27.2	0.75 19.1	17
		BDC15 	85~305						5, 12, 15, 24	4000	-40~+75	1.874 47.6	1.055 26.8	0.925 23.5	18
		MFC15 	90~264						5, 9, 12, 15, 24	4000	-40~+80	2.07 52.5	1.08 27.5	0.93 23.5	40
20W ~ 60W															
Compliant with UL/IEC/EN 62368-1 (Model dependent)															
20		AFC20N	90~264						3.3, 5.1, 12, 15, 24	3000	-40~+70	2.07 52.5	1.08 27.5	0.93 23.5	19
		AFCV20 	90~305						5.1, 12, 15, 24 5/12, ±12, ±15	4300	-40~+85	2.07 52.5	1.08 27.5	0.93 23.5	20
		AKC	90~305						3.3, 5.1, 7.35, 9, 12, 15, 24 ±5, ±12, ±15 5/±12, 5/±15	3000	-25~+70	2.75 69.8	1.88 47.8	0.87 22.0	21
		ARCF20 	85~530						5, 12, 15, 24	4300	-40~+90	2.92 74.2	1.85 47.0	0.91 23.1	22
		BFC20 	85~305						5, 12, 15, 24	4000	-40~+85	2.125 54.0	1.153 29.3	0.933 23.7	23
		MZC20 	90~264						12, 24	4000	-40~+80	2.07 52.5	1.08 27.5	0.93 23.5	42
25		AFCH25  	90~305						5.1, 12, 15, 24	4000	-40~+70	2.07 52.5	1.08 27.5	0.93 23.5	36

Product Selection Guide

(NEW) - New Products ✓ - Focus Products 🏠 - ITE 🏠 - Household 🏠 - Medical

AC-DC ITE Power Module

Output Power (W)		Series	Input Voltage (Vac)	OVC		Output Type			Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page
				III	IV	S	D	T				L	W	H	
20W ~ 60W															
Compliant with UL/IEC/EN 62368-1 (Model dependent)															
30		ATC30	90~305						3.3, 5.1, 12, 15, 24	3000	-40~+70	2.52 64.1	1.8 45.6	0.93 23.5	24
		ATCH30  	90~305						5.1, 12, 15, 24	4000	-40~+85	2.54 64.6	1.79 45.4	0.87 22.0	37
		MTC30 	90~264						5.1, 12, 15, 24	4000	-40~+80	2.52 64.1	1.8 45.6	0.93 23.5	43
40		AJC	90~264			  			3.3, 5.1, 9, 12, 15, 24 ±5, ±12, ±15, 5/12, 5/24 5/±12, 5/±15	3000	-40~+70	3.52 89.5	2.52 64.1	0.98 25.0	25
		ATCV40 	90~305						5.1, 12, 15, 24, 48	4300	-40~+85	2.52 64.1	1.8 45.6	0.93 23.5	26
		ATCW40 	90~330						5.1, 12, 15, 24, 48	5700	-40~+70	2.52 64.1	1.8 45.6	0.93 23.5	27
		BTC40 	85~305						5, 12, 15, 24, 48	4200	-40~+85	2.736 69.5	1.535 39.0	1.004 25.5	28
50		ANC50	90~264						5.1, 12, 15, 24, 48	3000	-40~+70	2.91 74.1	2.13 54.1	0.87 22.1	29
		ANCH50  	90~305						12, 15, 24	4000	-40~+70	2.92 74.2	1.85 47.0	0.91 23.1	38
60		ARC60  	90~264						12, 15, 24	4000	-40~+85	2.92 74.2	1.85 47.0	0.91 23.1	39
		ARCV60 	90~305						12, 15, 24	4300	-40~+85	2.92 74.2	1.85 47.0	0.91 23.1	30
		MSC60 	90~264						5.1, 9, 12, 15, 24	4000	-40~+80	3.5 89.0	2.5 63.5	1.09 27.6	45
65		ARCV65 	90~305						12, 15, 24	4300	-40~+85	2.92 74.2	1.85 47.0	0.91 23.1	31
100W ~ 150W															
Compliant with UL/IEC/EN 62368-1 (Model dependent)															
100		AJCV100 	90~264						12, 24, 48	4300	-40~+85	3.5 89.0	2.5 63.5	1.09 27.6	32
150		AJCV150 	90~264						12, 24, 48	4300	-40~+85	3.5 89.0	2.5 63.5	1.09 27.6	33
		MQC150 	90~264						12, 24, 48	4000	-30~+70	4.3 109.0	2.3 58.5	1.38 35.0	47

Our Solution:

ITE Series Power Supplies

Complete Portfolio from Compact 2W Modules to 1300W High-Power Supplies

Designed to address the challenges of industrial environments, the ITE Series delivers reliable and efficient power solutions for a wide range of industrial applications.

- Robust design for unstable input and electrical disturbances
- Low noise and stable output for sensitive systems
- Reliable operation in demanding industrial and infrastructure environments
- Compact and flexible form factors for easy system integration



Product Selection Guide

(NEW) - New Products ✓ - Focus Products ITE Household Medical

AC-DC Household Power Module

Output Power (W)		Series	Input Voltage (Vac)	OVC		Output Type			Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page
				III	IV	S	D	T				L	W	H	
5W ~ 60W															
UL/IEC/EN 62368-1 & IEC/EN 60335-1 & 61558-2-16 Certified															
5		AOCH05  	90~305						3.3, 5, 12, 24	4000	-40~+70	1.46 37.0	1.08 27.5	0.69 17.5	34
10		AOCH10  	90~305						5, 12, 15, 24	4000	-40~+70	1.46 37.0	1.08 27.5	0.79 17.5	35
25		AFCH25  	90~305						5.1, 12, 15, 24	4000	-40~+70	2.07 52.5	1.08 27.5	0.93 23.5	36
30		ATCH30  	90~305						5.1, 12, 15, 24	4000	-40~+85	2.54 64.6	1.79 45.4	0.87 22.0	37
50		ANCH50  	90~305						12, 15, 24	4000	-40~+70	2.92 74.2	1.85 47.0	0.91 23.1	38
60		ARC60  	90~264						12, 15, 24	4000	-40~+85	2.92 74.2	1.85 47.0	0.91 23.1	39

AC-DC Medical Power Module

Output Power (W)	Series	Input Voltage (Vac)	OVC		Output Type			Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page	
			III	IV	S	D	T				L	W	H		
15W ~ 150W															
UL/IEC/EN 60601-1 (2 x MOPP) Certified(ITE): plus UL/IEC/EN 62368-1 Certified															
15		MFC15 	90~264					5, 9, 12, 15, 24	4000	-40~+80	2.07 52.5	1.08 27.5	0.93 23.5	40	
		MTC	90~264						3.3,5,7,35,9,12,15,24 ±5, ±12, ±15 5/±12, 5/±15	4000	-25~+70	2.52 64.1	1.8 45.6	0.93 23.5	41
20		MZC20 	90~264					12, 24	4000	-40~+80	2.07 52.5	1.08 27.5	0.93 23.5	42	
30		MTC30 	90~264					5.1, 12, 15, 24	4000	-40~+80	2.52 64.1	1.8 45.6	0.93 23.5	43	
40		MSC	90~264						3.3,5,1,9,12,15,24 ±5,±12,±15,5/12,5/24 5/±12, 5/±15	4000	-25~+70	3.5 89.0	2.5 63.5	1.09 27.6	44
60		MSC60 	90~264					5.1, 9, 12, 15, 24	4000	-40~+80	3.5 89.0	2.5 63.5	1.09 27.6	45	
100		MQCS100	90~264					12, 24, 48	4000	-30~+70	3.3 83.8	2.32 58.4	1.38 35.0	46	
150		MQC150 	90~264					12, 24, 48	4000	-30~+70	4.3 109.0	2.3 58.5	1.38 35.0	47	

Product Selection Guide

(NEW) - New Products ✓ - Focus Products 🇨🇳 - Medical ☀️ - Semi Potted Design

AC-DC ITE Switching Power Supply

★ Input Voltage: ●=90, ●=80~264 Vac ★ Package Type: O=Open Frame, U=U Bracket, E=Enclosed

Output Power (W)		Series	Package				OVC	Cooling Method	Output Type		Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page
			V In	O	U	E			S	D				L	W	H	
40W ~ 80W																	
Compliant with UL/IEC/EN 62368-1 (Model dependent)																	
40		AQF40	●	■	■	■	☼	☼	S		12, 24	3000	-40~+80	3.0 76.2	1.5 38.1	0.87 22.0	48
60		SZA60O	●	■	■	■	☼	☼	S		5, 12, 15, 24, 48	3000	-30~+70	3.0 76.3	2.0 50.6	1.24 31.5	50
		SZA60U	●	■	■	■	☼	☼	S		5, 12, 15, 24, 48	3000	-30~+70	3.15 80.0	2.35 59.7	1.5 38.0	50
65		AQF65	●	■	■	■	☼	☼	S		12, 24	3000	-40~+80	3.0 76.2	2.0 50.8	0.87 22.0	49
		BQF65 (NEW)	●	■	■	■	☼	☼	S		12, 24	4000	-20~+70	3.0 76.2	2.0 50.8	0.945 24.0	52
80		AQF80	●	■	■	■	☼	☼	S		12, 24	3000	-40~+80	3.0 76.2	2.0 50.8	0.945 24.0	53
120W ~ 500W																	
UL/IEC/EN 62368-1 Certified(MQF240O/U/E,MQF500O: plus UL/IEC/EN 60601-1 (2 x MOPP) Certified)																	
120 180		AQF120O	●	■	■	■	☼	☼	S		5, 12, 15, 24, 48	4000	-25~+80	5.0 127.0	3.0 76.2	1.16 29.5	54
		AQF120U	●	■	■	■	☼	☼	S		5, 12, 15, 24, 48	4000	-25~+80	5.0 127.0	3.24 82.2	1.5 38.1	54
		AQF120E	●	■	■	■	☼	☼	S		5, 12, 15, 24, 48	4000	-25~+80	5.0 127.0	3.24 82.2	1.5 38.1	54
120		BQF120 (NEW)	●	■	■	■	☼	☼	S		12, 24, 48	4000	-40~+85	3.0 76.2	2.0 50.8	1.3 33.0	58
130		ARF130O ✓	●	■	■	■	☼	☼	S		12, 24, 48	4000	-30~+70	3.59 91.2	2.15 54.6	1.36 34.6	60
		ARF130U ✓☀️	●	■	■	■	☼	☼	S		12, 24, 48	4000	-30~+80	3.15 80.0	2.35 59.7	1.5 38.0	60
		ARF130E ✓☀️	●	■	■	■	☼	☼	S		12, 24, 48	4000	-30~+80	3.15 80.0	2.35 59.7	1.7 43.2	60
220		ARF220O (NEW)	●	■	■	■	☼	☼	S		12, 24, 48	4300	-40~+80	3.0 76.2	2.0 50.8	1.26 32.0	64
		ARF220E (NEW)	●	■	■	■	☼	☼	S		12, 24, 48	4300	-40~+80	3.15 80.0	2.37 60.0	1.38 35.0	64
240		AQF240U	●	■	■	■	☼	☼	S		*5, 12, 15, 24, 28, 32, 36, 48 5S only for AQF240U	4000	-10~+70	6.0 150.0	4.18 106.0	1.38 35.0	66
		AQF240E	●	■	■	■	☼	☼	S		12, 24, 48	4000	-10~+70	6.0 150.0	4.18 106.0	1.38 35.0	66
		AQF240E-12S24S	●	■	■	■	☼	☼	S	D	12 / 24	4000	-10~+70	6.0 150.0	4.18 106.0	1.54 39.0	59
		ARF240O ✓	●	■	■	■	☼	☼	S		12, 24, 48	4250	-40~+80	4.02 101.9	2.05 52.1	1.09 27.6	68
240		ARF240U	●	■	■	■	☼	☼	S		12, 24, 48	4250	-40~+80	4.02 101.9	2.05 52.1	1.09 27.6	68
		ARF240E	●	■	■	■	☼	☼	S		12, 24, 48	4250	-40~+80	4.02 101.9	2.05 52.1	1.09 27.6	68
		ARF240E-12S24S	●	■	■	■	☼	☼	S	D	12 / 24	4000	-10~+70	6.0 150.0	4.18 106.0	1.54 39.0	59
240		MQF240O 🇨🇳	●	■	■	■	☼	☼	S		12, 15, 24, 48	4000	-30~+70	4.1 103.9	2.05 52.0	1.087 27.6	86
		MQF240U 🇨🇳	●	■	■	■	☼	☼	S		12, 15, 24, 48	4000	-30~+70	4.1 103.9	2.05 52.0	1.087 27.6	86
		MQF240E 🇨🇳	●	■	■	■	☼	☼	S		12, 15, 24, 48	4000	-30~+70	4.1 103.9	2.05 52.0	1.087 27.6	86
320		ARF320O (NEW)	●	■	■	■	☼	☼	S		12, 24, 48	4250	-40~+80	4.0 101.6	2.0 50.8	1.32 33.5	70
		ARF320E (NEW)	●	■	■	■	☼	☼	S		12, 24, 48	4250	-40~+80	4.0 101.6	2.0 50.8	1.32 33.5	70

Cooling Method: ☼ - Natural Convection ☼☼ - Forced Air ☼☼☼ - Conduction Cooled ☼☼☼☼ - Built-in Fan

Product Selection Guide

(NEW) - New Products ✓ - Focus Products 🇨🇦 - Medical 🌞 - Semi Potted Design

AC-DC ITE Switching Power Supply

* Input Voltage: ●=90, ●=80~264 Vac * Package Type: O=Open Frame, U=U Bracket, E=Enclosed

Output Power (W)	Series	Package Type				OVC III	Cooling Method	Output Type		Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page
		V In	O	U	E			S	D				L	W	H	
500	MQF5000 🇨🇦	●	■				🌀	■		12, 15, 24, 48	4000	-30~+70	5.03 127.8	3.0 76.2	1.38 35.0	88
	ARFN500U ✓ 🌞	●		■		■	🌀🌀🌀	■		12, 24, 48	4250	-40~+80	5.12 130.0	3.27 83.0	1.57 40.0	72
	ARFN500E ✓ 🌞	●			■	■	🌀	■		12, 24, 48	4250	-40~+80	5.12 130.0	3.27 83.0	2.45 62.3	72
700W ~ 1300W Compliant with UL/IEC/EN 62368-1																
700	AQF700 AQF700C	●			■	■	🌀	■		12,15,24, 28, 48	4250	-30~+70	6.7 170.0	3.66 93.0	1.61 41.0	74
750	ARF7500 (NEW)	●	■			■	🌀	■		12, 24, 48	4300	-40~+85	5.0 130.0	3.0 76.2	1.6 41.0	76
	ARF750E (NEW)	●			■	■	🌀	■		12, 24, 48	4300	-40~+85	5.12 130.0	3.27 83.0	1.6 41.0	76
1000	AQF1000 AQF1000C ✓	●			■	■	🌀	■		12, 24, 48	4300	-20~+70	7.6 193.0	4.02 102.0	1.62 41.0	78
1300	ARF1300E ✓	●			■	■	🌀🌀🌀	■		12, 24, 48	4250	-30~+70	7.8 198.0	4.49 114.0	1.62 41.0	80
	ARF1300F ✓	●			■	■	🌀	■		12, 24, 48	4250	-30~+70	8.84 224.5	4.49 114.0	1.62 41.0	80

Cooling Method: 🌀 - Natural Convection 🌀 - Forced Air 🌀 - Conduction Cooled 🌀 - Built-in Fan

(NEW) - New Products ✓ - Focus Products 🇨🇦 - ITE

AC-DC Medical Switching Power Supply

* Input Voltage: ●=90, ●=80~264 Vac * Package Type: O=Open Frame, U=U Bracket, E=Enclosed

Output Power (W)		Series	* Package				OVC III	Cooling Method	Output Type		Output Voltage (Vdc)	ISO (Vac)	OP. Temp. (°C)	Dimensions (inches) (mm)			Page
			V In	Type	U	E			S	D				L	W	H	
120W ~ 700W																	
UL/IEC/EN 60601-1 (2 x MOPP) Certified(MQF240/MQF500: plus UL/IEC/EN 62368-1 Certified)																	
120		MQF1200	●	■	■	■		🌀	🌀	■	12, 24, 48	4000	-30~+70	3.04 77.2	2.0 50.8	1.2 30.7	84
		MQF120U	●	■	■	■		🌀	🌀	■	12, 24, 48	4000	-30~+70	3.15 80.0	2.35 59.7	1.5 38.0	84
		MQF120E	●	■	■	■	■	🌀	🌀	■	12, 24, 48	4000	-30~+70	3.15 80.0	2.35 59.7	1.7 43.2	84
240		MQF2400	●	■	■	■		🌀	🌀	■	12, 15, 24, 48	4000	-30~+70	4.1 103.9	2.05 52.0	1.087 27.6	86
		MQF240U	●	■	■	■		🌀	🌀	■	12, 15, 24, 48	4000	-30~+70	4.1 104.0	2.44 62.0	1.544 39.2	86
		MQF240E	●	■	■	■	■	🌀	🌀	■	12, 15, 24, 48	4000	-30~+70	4.1 104.0	2.44 62.0	1.99 50.5	86
500		MQF5000	●	■	■	■		🌀	🌀	■	12, 15, 24, 48	4000	-30~+70	5.03 127.8	3.0 76.2	1.38 35.0	88
		MQF500U	●	■	■	■		🌀	🌀	■	12, 15, 24, 48	4000	-30~+70	5.5 139.7	3.25 82.6	1.6 40.6	88
		MQF500E	●	■	■	■	■	🌀	🌀	■	12, 15, 24, 48	4000	-30~+70	5.5 139.7	3.25 82.6	2.42 61.4	88
700		MQF700 MQF700C	●	■	■	■	■	🌀	🌀	■	12,15,24, 28, 48	4000	-30~+70	6.7 170.0	3.66 93.0	1.61 41.0	90

Cooling Method: 🌀 - Natural Convection 🌀 - Forced Air 🌀 - Conduction Cooled 🌀 - Built-in Fan

Product Selection Guide

(NEW) - New Products **✓** - Focus Products

DC-DC Converter

* X=With Heat Sink, A2=Screw Terminal, D=Din Rail Kit for Option: **■**=Safety, **■**=Safety without

Output Power Power (W)		Series	Input Voltage (Vdc)	Output Type		Output Voltage (Vdc)	ISO (Vdc)	OP. Temp. (°C)	Dimensions (inches) (mm)			Accessories					Page				
				S	D				L	W	H	X	A2	A2D	XA2	XA2D					
6W ~ 60W or 1A																	Compliant with EN 62368-1 (Model dependent)				
6		BF06 (NEW)	24V (9~36) 48V(18~75)	S	D	3.3, 5, 12, 15, 24 ±5, ±12, ±15	3000	-40~+85	1.24 31.6	0.799 20.3	0.402 10.2						92				
10		BA10 (NEW)	24V (9~36) 48V(18~72)	S		5, 12, 15, 24	2250	-40~+85	0.87 22.0	0.37 9.5	0.472 12.0						93				
30		BC30 (NEW)	24V (9~36) 48V(18~75)	S		3.3, 5, 12, 15, 24	1600	-40~+105	1.0 25.4	1.0 25.4	0.492 12.5						94				
60		BE60 (NEW)	24V (9~36) 48V(18~75)	S		5, 12, 15, 24	1600	-40~+105	2.0 50.8	2.0 25.4	0.464 11.8						95				
3.3~15 (1A)		BR78 (NEW)	24V (X~34) X=6,8,10,13,15,20	S		3.3, 5, 6.5, 9, 12, 15	—	-40~+85	0.453 11.5	0.354 9.0	0.69 17.5						96				
3.3~15 (1A)		HR78 (NEW)	24V (X~36) X=6,8,10,13,16,18	S		3.3, 5, 6.5, 9, 12, 15	—	-40~+85	0.457 11.6	0.297 7.55	0.4 10.16						97				

Model Encoding

AC-DC Power Module **AFCH 25 - 12 S - A2**
 ① ② ④ ⑤ ⑥

AC-DC Switching Power Supply **AQF 240 E - 12 S - DRK**
 ① ② ③ ④ ⑤ ⑥

DC-DC Converter **BC 30 - 24 F - 12 S - A2**
 ① ② ⑦ ④ ⑤ ⑥

① Series Name

② Output Power

05=5W	10=10W	25=25W	50=50W	80=80W	130=130W	240=240W	700=700W
06=6W	15=15W	30=30W	60=60W	100=100W	150=150W	320=320W	750=750W
07=7W	20=20W	40=40W	65=65W	120=120W	220=220W	500=500W	1000=1000W
							1300=1300W

③ Package Type & Option (For Switching Power Supply)

C Current share Function (For AQF700/AQF1000/MQF700 Series)

E Enclosed Type **O** Open Frame Type **U** U Bracket Type

⑦ Input Voltage (For DC-DC Converter)

24F=24Vdc(9-36Vdc)
48F=48Vdc(18-72Vdc or 18-75Vdc)

④ Output Voltage

S=Single Type
3.3=3.3Vdc 8=8Vdc
5=5Vdc 9=9Vdc
5.1=5.1Vdc 12=12Vdc
6.5=6.5Vdc 14=14Vdc
7.35=7.35Vdc 15=15Vdc

⑤ Output Type

S Single Type **D** Dual Type **T** Triple Type
D=Dual Type
5D=±5Vdc 5S3.3S=5 / 3.3Vdc
12D=±12Vdc 5S12S=5 / 12Vdc
15D=±15Vdc 5S24S=5 / 24Vdc
8S5S =8 / 5Vdc

⑥ Option

For AC-DC Power Module

A2 Screw Terminal

A2-DN Din Rail

For Switching Power Supply

DRK Din Rail

For DC-DC Converter

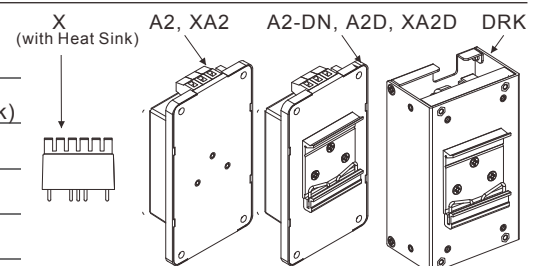
X With Heat Sink

A2 Terminals(without Heat Sink)

A2D DIN Rail without Heat Sink

XA2 Terminals(with Heat Sink)

XA2D DIN Rail with Heat Sink





More Details

AOC/AOCH SERIES

4W AC-DC ITE Power Module



UL / IEC / EN 62368-1



Unified Selection Guide



Single and Dual Output



Low Ripple and Low Noise



Maximum No-Load Watts < 0.3W



I/O Isolation: 3000VAC



Isolation Class II



Operating Temperature:
-40°C~+70°C with derating



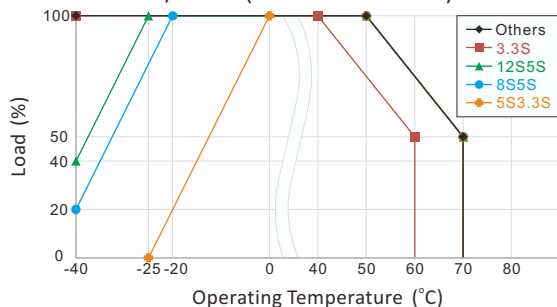
Protection: OPP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AOC / AOCH Single Output Size: 1.46 x 1.08 x 0.69 inches						
AOC/AOCH-3.3S	3.96	AOC: 90~264 AOCH: 90~305	3.3	1200	68	250
AOC/AOCH-5S	4		5	800	72	250
AOC/AOCH-8S	4		8	500	74	200
AOC/AOCH-9S	4		9	444	75	200
AOC/AOCH-12S	4		12	333	76	150
AOC/AOCH-14S	4		14	286	76	150
AOC/AOCH-15S	4		15	267	76	100
AOC/AOCH-24S	4		24	167	77	100
AOC / AOCH Dual Output Size: 1.46 x 1.08 x 0.69 inches						
AOC/AOCH-5S3.3S	3.5	AOC: 90~264	5 / 3.3	600 / 150	72	200
AOC/AOCH-8S5S	3.6	AOCH: 90~305	8 / 5	375 / 120	74	150
AOC/AOCH-12S5S	3.6		12 / 5	250 / 120	75	100

Derating

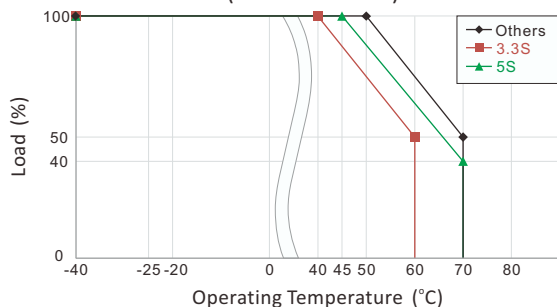
Output Load vs. Operating Temperature

AOC / AOCH(Vin at 90-280 VAC) Series

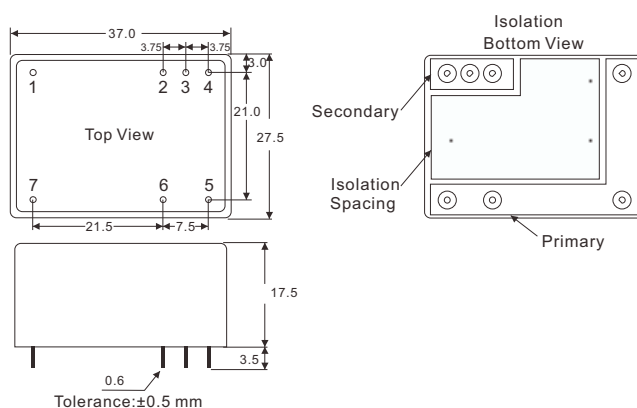


Output Load vs. Operating Temperature

AOCH(Vin at 305 VAC) Series



Outline Dimensions



PIN#	SERIES			
	AOC		AOCH	
	Single	Dual	Single	Dual
1	NC	NC	NC	NC
2	+Vo	+Vo	+Vo	+Vo
3	GND	COM	GND	COM
4	NC	+Vr	NC	+Vr
5	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
6	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
7	NC	NC	NC	NC



More Details

AHC SERIES

5W AC-DC ITE Power Module



UL / IEC / EN 60950-1 , EN 62368-1

ITE Power Module — AHC

Unified Selection Guide

- Single and Dual Output
- Low Ripple and Low Noise
- I/O Isolation: 3000VAC
- Isolation Class II
- Compatible Screw Terminal Option
- Operating Temperature: -25°C~+70°C with derating
- Protection: OPP / OVP / SCP

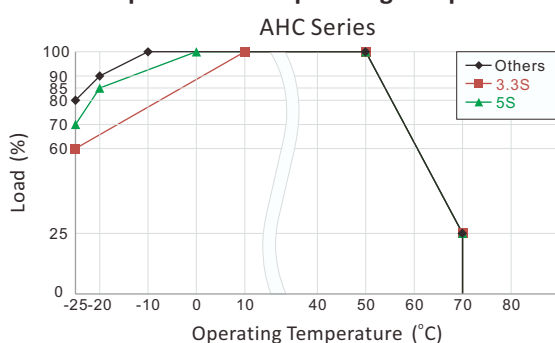
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AHC Single Output				Size: 2.0 x 1.0 x 0.6 inches		
AHC-3.3S ☐	4	90~264	3.3	1250	68	47
AHC-5S ☐	5	90~264	5	1000	71	50
AHC-12S ☐	5	90~264	12	420	75	64
AHC-15S ☐	5	90~264	15	333	75	88
AHC-24S ☐	5.5	90~264	24	230	77	136

☐ :-A2=Screw Terminal

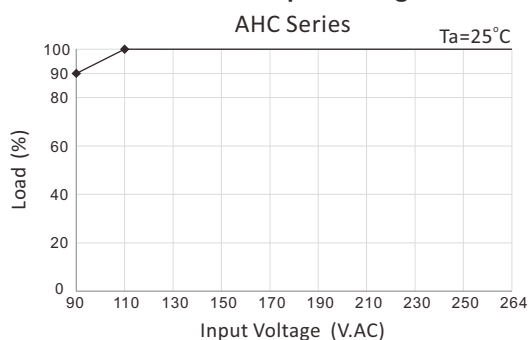
11

Derating

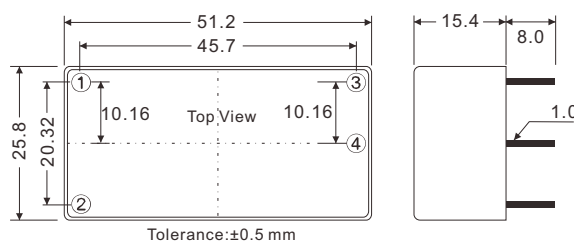
Output Load vs. Operating Temperature



Load vs. Input Voltage



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT



More Details

AHCH05 SERIES

5W AC-DC ITE Power Module

ITE Power Module — AHCH05

12



UL / IEC / EN 62368-1
IEC / EN 60335-1 (meet)
IEC / EN 61558-2-16 (meet)



Unified Selection Guide



No Load Power Consumption < 0.1W



Operating Altitude 5000m
(UL / IEC / EN 62368-1)



EMC Compliant without External
Components



I/O Isolation: 4000VAC



Isolation Class II



Certified Screw Terminal Option



Wide Operating Temperature:
-40°C~+85°C with derating



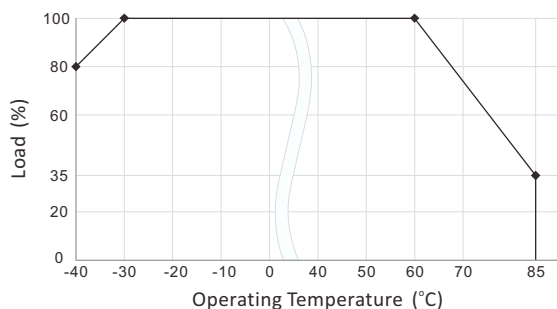
Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AHCH05 Single Output				Size: 2.04 x 1.04 x 0.65 inches		
AHCH05-3.3S ☐	5	90~305	3.3	1515	73	100
AHCH05-5S ☐	5	90~305	5	1000	76	100
AHCH05-12S ☐	5.04	90~305	12	420	80	150
AHCH05-24S ☐	5.04	90~305	24	210	82	200

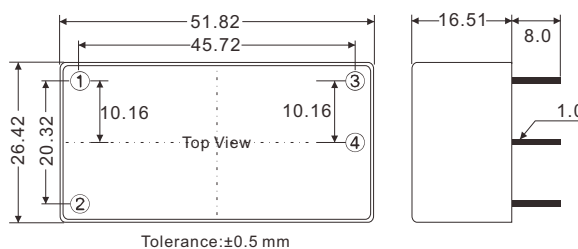
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

Output Load vs. Operating Temperature
AHCH05 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT



More Details

BUC05 SERIES

5W AC-DC ITE Power Module

NEW



CE CB
E199779
UL / IEC / EN 62368-1

ITE Power Module — BUC05

Unified Selection Guide

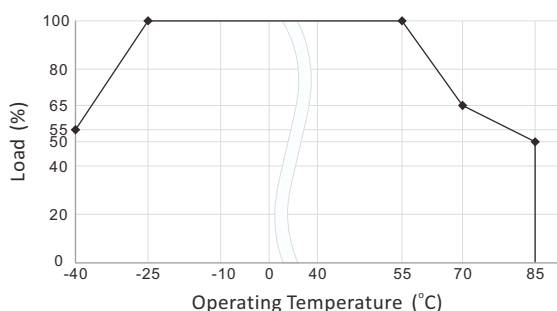
- No Load Power Consumption < 0.25W
- 5000m Altitude Application
- I/O Isolation: 4000VAC
- Isolation Class II
- Wide Operating Temperature: -40°C~+85°C with derating
- Protection: OCP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BUC05 Single Output				Size: 1.0 x 1.0 x 0.693 inches		
BUC05-5S	5	85~305	5	1000	72	100
BUC05-12S	5	85~305	12	416	75	120
BUC05-15S	5	85~305	15	333	76	120
BUC05-24S	5	85~305	24	208	77	150

Derating

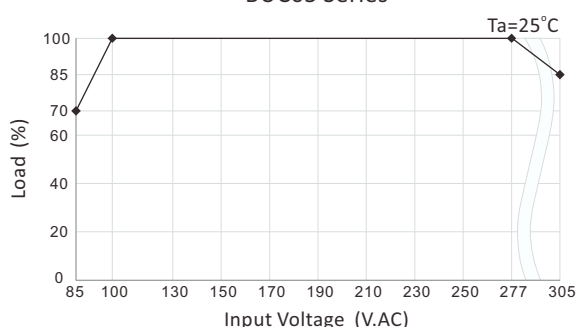
Output Load vs. Operating Temperature

BUC05 Series

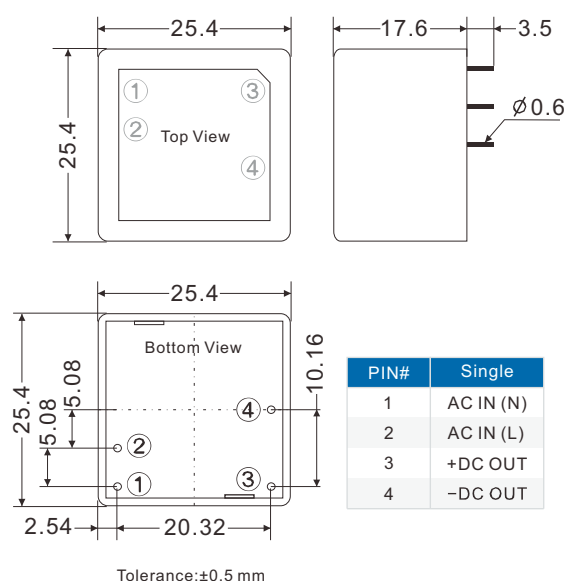


Load vs. Input Voltage

BUC05 Series



Outline Dimensions





More Details

AUC SERIES

7W AC-DC ITE Power Module



UL / IEC / EN 62368-1



Unified Selection Guide



No Load Power Consumption < 0.1W



I/O Isolation: 3000VAC



Isolation Class II



Operating Temperature:
-40°C~+70°C with derating



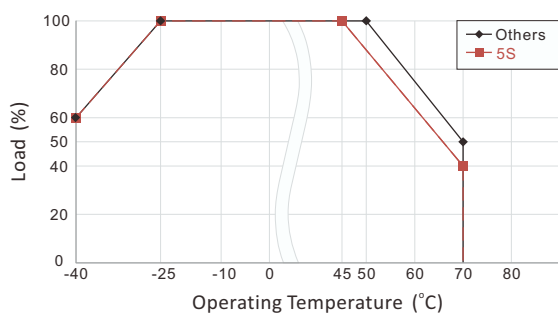
Protection:OPP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AUC Single Output				Size: 1.08 x 1.08 x 0.736 inches		
AUC-5S	6.3	90~264	5	1260	77	100
AUC-12S	7	90~264	12	583	80	100
AUC-15S	7	90~264	15	466	80	100
AUC-24S	7	90~264	24	292	80	200

Derating

Output Load vs. Operating Temperature

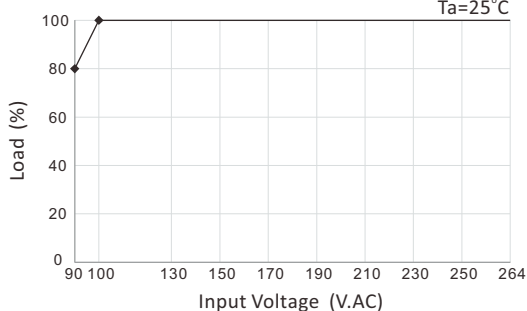
AUC Series



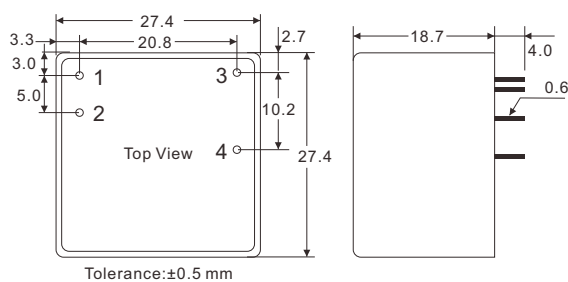
Load vs. Input Voltage

AUC Series

Ta=25°C



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT



More Details

AHCH10 SERIES

10W AC-DC ITE Power Module



E199779
UL / IEC / EN 62368-1
IEC / EN 60335-1 (meet)
IEC / EN 61558-2-16 (meet)

Unified Selection Guide



No Load Power Consumption < 0.1W



Operating Altitude 5000m
(UL / IEC / EN 62368-1)



EMC Compliant without External
Components



I/O Isolation: 4000VAC



Isolation Class II



Certified Screw Terminal Option



Wide Operating Temperature:
-40°C~+85°C with derating



Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AHCH10 Single Output				Size: 2.055 x 1.055 x 0.75 inches		
AHCH10-5S ☐	10	90~305	5	2000	80.5	100
AHCH10-12S ☐	10	90~305	12	833	85	100
AHCH10-15S ☐	10	90~305	15	667	86	150
AHCH10-24S ☐	10	90~305	24	417	85.5	150

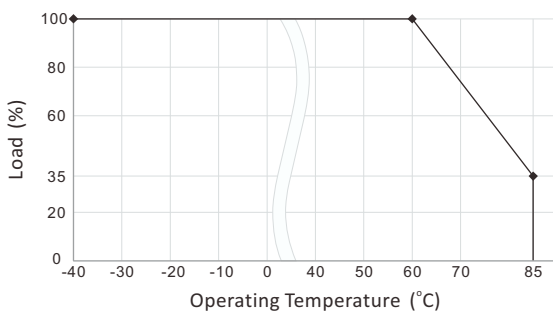
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

ITE Power Module — AHCH10

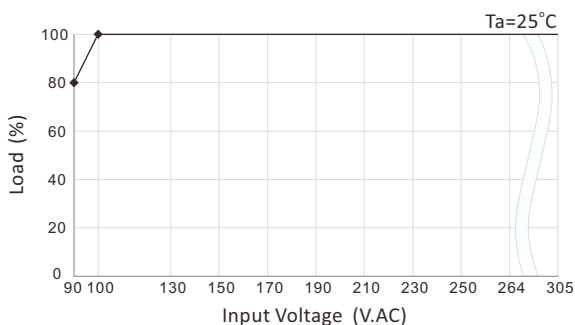
15

Derating

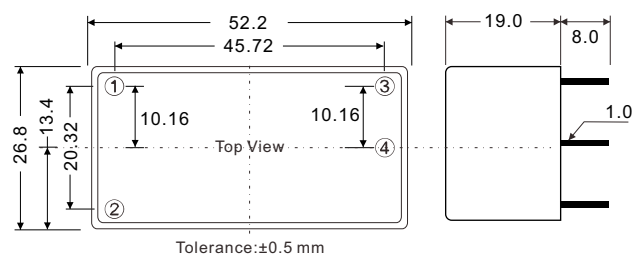
Output Load vs. Operating Temperature
AHCH10 Series



Load vs. Input Voltage
AHCH10 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT



More Details

BVC10 SERIES

10W AC-DC ITE Power Module

NEW



UL / IEC / EN 62368-1
IEC 61558-1 (meet)
IEC 61558-2-16 (meet)

ITE Power Module — BVC10



No Load Power Consumption < 0.1W



4000m Altitude Application



I/O Isolation: 4200VAC



Isolation Class II



Wide Operating Temperature:
-40°C~+85°C with derating



Protection: OCP / SCP

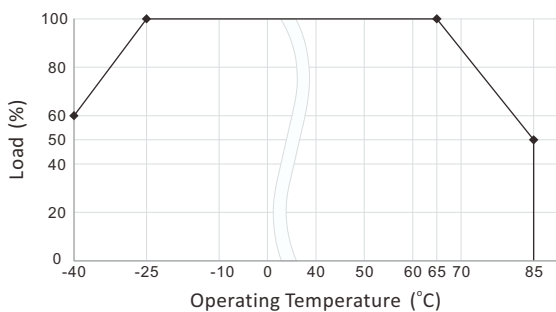
Unified Selection Guide

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BVC10 Single Output				Size: 1.575 x 1.0 x 0.827 inches		
BVC10-5S	10	85~305	5	2000	79	130
BVC10-12S	10	85~305	12	833	82	120
BVC10-15S	10	85~305	15	667	82	120
BVC10-24S	10	85~305	24	416	83	150

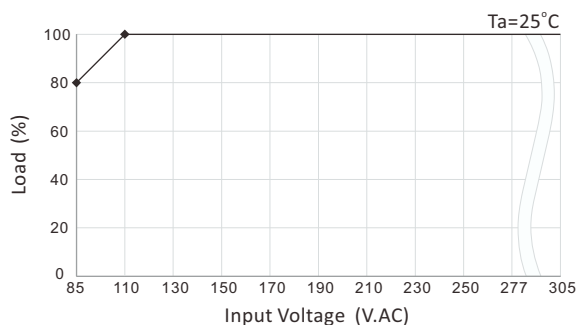
16

Derating

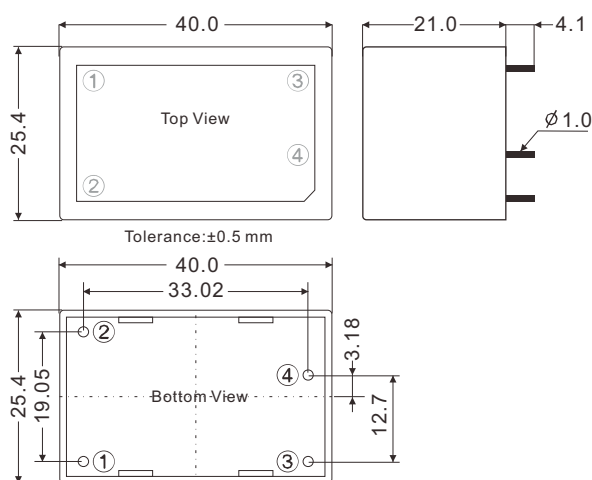
Output Load vs. Operating Temperature
BVC10 Series



Load vs. Input Voltage
BVC10 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	-DC OUT
4	+DC OUT



More Details

AVC SERIES

15W AC-DC ITE Power Module



ITE Power Module — AVC

Unified Selection Guide



No Load Power Consumption < 0.1W



I/O Isolation: 4000VAC



Isolation Class II



Operating Temperature:
-40°C~+70°C with derating



Protection:OPP / OVP / SCP

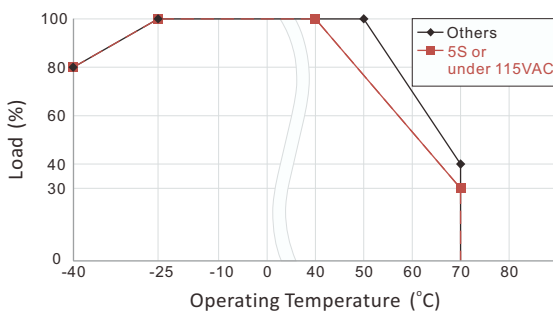
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AVC Single Output				Size: 1.62 x 1.07 x 0.75 inches		
AVC-5S	13.5	90~264	5	2700	80	100
AVC-12S	15	90~264	12	1250	84	120
AVC-15S	15	90~264	15	1000	84	150
AVC-24S	15	90~264	24	625	85	240

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Derating

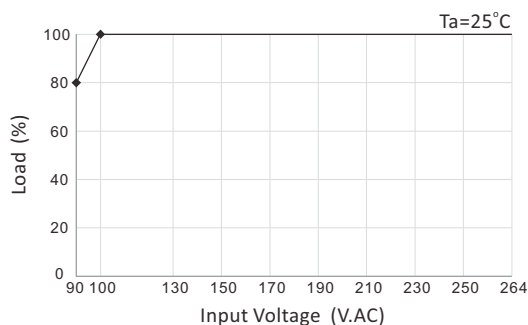
Output Load vs. Operating Temperature

AVC Series

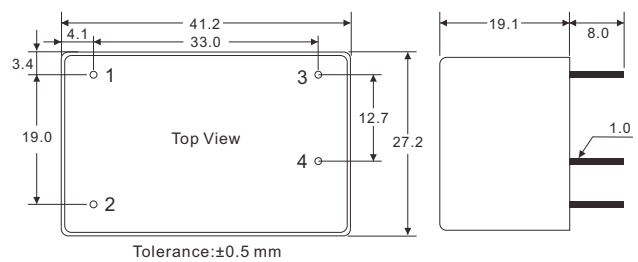


Load vs. Input Voltage

AVC Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	-DC OUT
4	+DC OUT



More Details

BDC15 SERIES

15W AC-DC ITE Power Module

NEW



UL / IEC / EN 62368-1



Unified Selection Guide



No Load Power Consumption < 0.3W



5000m Altitude Application



I/O Isolation: 4000VAC



Isolation Class II



Operating Temperature:
-40°C~+75°C with derating



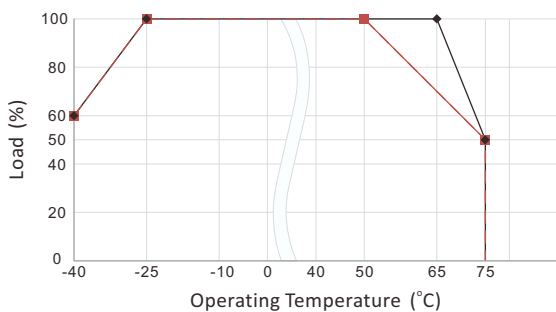
Protection: OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BDC15 Single Output				Size: 1.874 x 1.055 x 0.925 inches		
BDC15-5S	15	85~305	5	3000	84	100
BDC15-12S	15	85~305	12	1250	83	150
BDC15-15S	15	85~305	15	1000	83	150
BDC15-24S	15	85~305	24	625	86	150

Derating

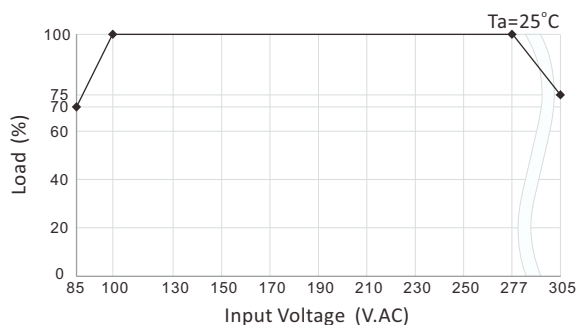
Output Load vs. Operating Temperature

BDC15 Series

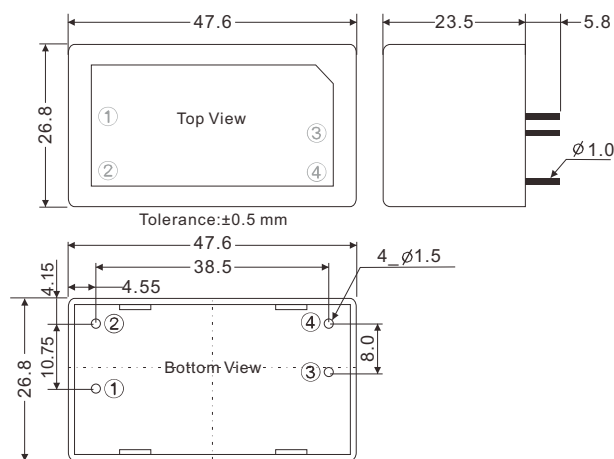


Load vs. Input Voltage

BDC15 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



AFC20N SERIES

20W AC-DC ITE Power Module



UL / IEC / EN 62368-1

Unified Selection Guide

- Low Standby < 0.25W
- Low Ripple and Low Noise
- I/O Isolation: 3000VAC
- Isolation Class II
- Compatible Screw Terminal Option
- Operating Temperature: -40°C~+70°C with derating
- Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AFC20N Single Output				Size: 2.07 x 1.08 x 0.93 inches		
AFC20N-3.3S	11.88	90~264	3.3	3600	73	75
AFC20N-5S	18	90~264	5.1	3600	78	75
AFC20N-12S	20	90~264	12	1660	82	120
AFC20N-15S	20	90~264	15	1330	83	150
AFC20N-24S	20	90~264	24	833	83	240

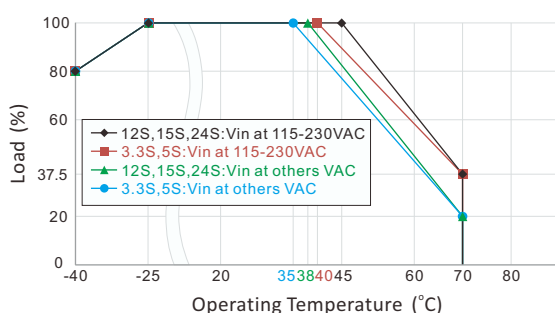
□ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

ITE Power Module — AFC20N

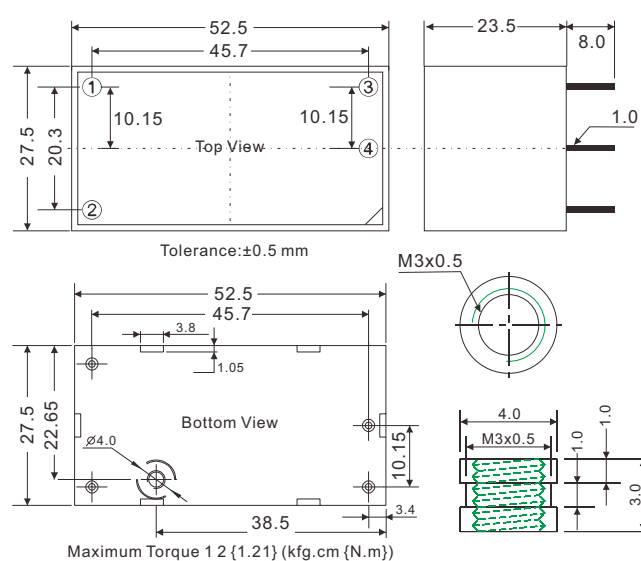
19

Derating

Output Load vs. Operating Temperature
AFC20N Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



More Details

AFCV20 SERIES

20W AC-DC ITE Power Module

ITE Power Module — AFCV20

20



UL / IEC / EN 62368-1
IEC / EN 61558-1 (meet)
IEC / EN 61558-2-16 (meet)
IEC / EN 60335-1 (meet)



No Load Power Consumption < 0.1W



5000m Altitude Application



Over-Voltage Category III



EMC Compliant without External Components



I/O Isolation: 4300VAC



Isolation Class II



Compatible Screw Terminal Option



Operating Temperature:
-40°C~+85°C with derating



Unified Selection Guide

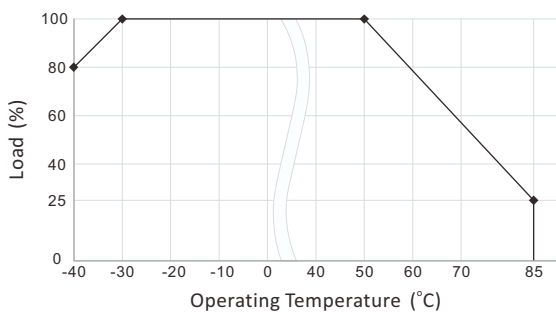
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AFCV20 Single Output				Size: 2.07 x 1.08 x 0.93 inches		
AFCV20-5S ☐	20	90~305	5.1	4000	85	120
AFCV20-12S ☐	20	90~305	12	1670	86	120
AFCV20-15S ☐	20	90~305	15	1330	87	150
AFCV20-24S ☐	20	90~305	24	833	87	240
AFCV20 Dual Output				Size: 2.07 x 1.08 x 0.93 inches		
AFCV20-5S12S ☐	18.4	90~305	5 / 12	2000 / 700	81	150
AFCV20-12D ☐	20	90~305	±12	±833	85	150
AFCV20-15D ☐	20	90~305	±15	±666	85	150

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

Output Load vs. Operating Temperature

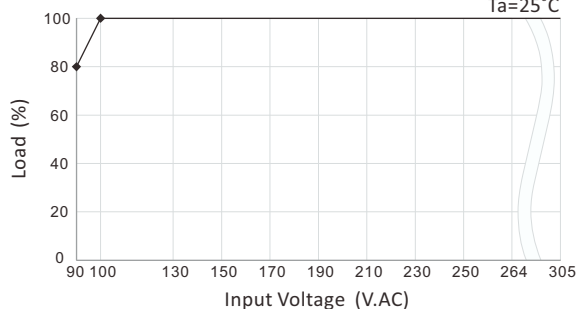
AFCV20 Series



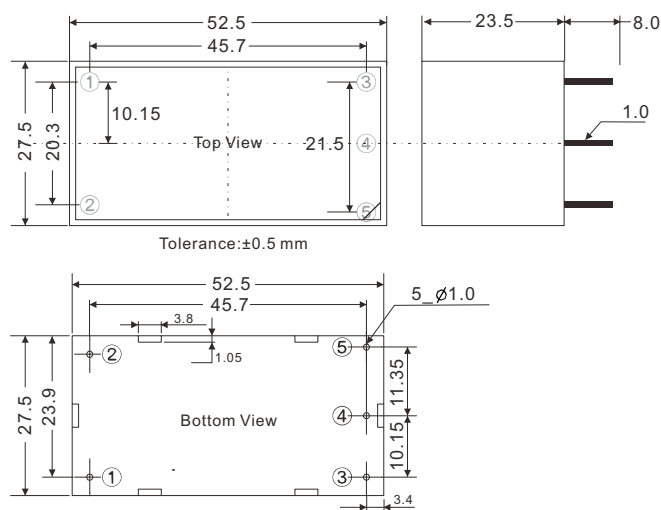
Load vs. Input Voltage

AFCV20 Series

Ta=25°C



Outline Dimensions



PIN#	Single	Dual	5S12S
1	AC IN (L)	AC IN (L)	AC IN (L)
2	AC IN (N)	AC IN (N)	AC IN (N)
3	+DC OUT	+DC OUT	+12V OUT
4	-DC OUT	COMMON	+5V OUT
5	NO PIN	-DC OUT	COMMON



More Details

AKC SERIES

20W AC-DC ITE Power Module



CE  CB
E199779
UL / IEC / EN 62368-1

ITE Power Module — AKC

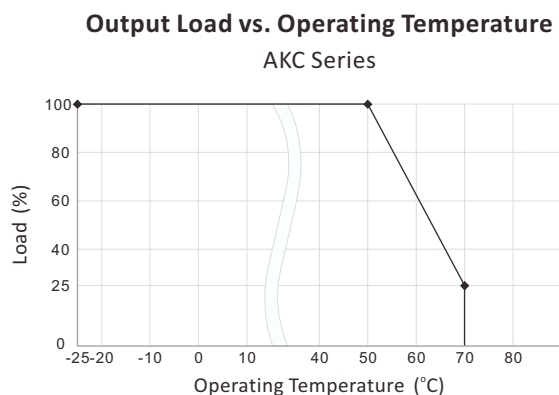
Unified Selection Guide

-  Multiple Output
-  Low Ripple and Low Noise
-  I/O Isolation: 3000VAC
-  Certified Screw Terminal Option
-  Operating Temperature:
-25°C~+70°C with derating
-  Protection: OCP / OVP / SCP

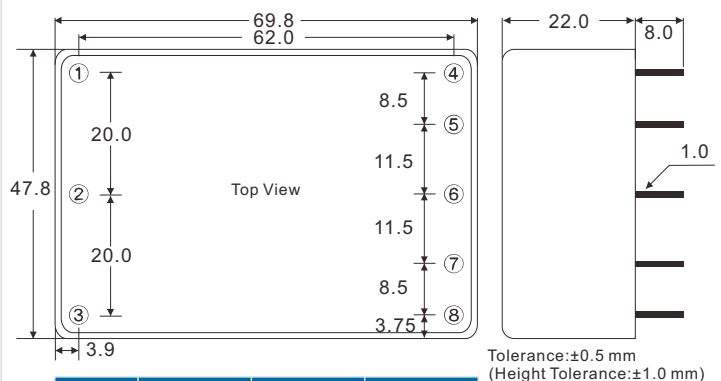
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AKC Single Output				Size: 2.75 x 1.88 x 0.87 inches		
AKC-3.3S ☐	14.85	90~264	3.3	4500	75	45
AKC-5S ☐	20	90~264	5.1	4000	79	38
AKC-7.35S ☐	20	90~264	7.35	2730	82	55
AKC-9S ☐	20	90~264	9	2230	82	58
AKC-12S ☐	20	90~264	12	1670	83	64
AKC-15S ☐	20	90~264	15	1340	83	70
AKC-24S ☐	20	90~264	24	840	84	88
AKC Dual Output				Size: 2.75 x 1.88 x 0.87 inches		
AKC-5D ☐	20	90~264	±5	±2000	79	50
AK-12D ☐	20	90~264	±12	±833	82	64
AKC-15D ☐	20	90~264	±15	±667	82	70
AKC Triple Output				Size: 2.75 x 1.88 x 0.87 inches		
AKC-5S12D ☐	20	90~264	5 / ±12	2800 / ±250	81	50/64
AKC-5S15D ☐	20	90~264	5 / ±15	2800 / ±200	81	50/70

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating



Outline Dimensions



PIN#	Single	Dual	Triple
1	FG	FG	FG
2	AC IN (N)	AC IN (N)	AC IN (N)
3	AC IN (L)	AC IN (L)	AC IN (L)
4	NO PIN	NO PIN	-DC OUT
5	-DC OUT	-DC OUT	COMMON
6	NO PIN	COMMON	+DC OUT
7	+DC OUT	+DC OUT	+5V OUT
8	NO PIN	NO PIN	+5V RTN



ITE Power Module — ARCF20

UL / IEC / EN 62368-1

No Load Power Consumption < 0.3W

5000m Altitude Application

Over-Voltage Category III

I/O Isolation: 4300VAC

Isolation Class II

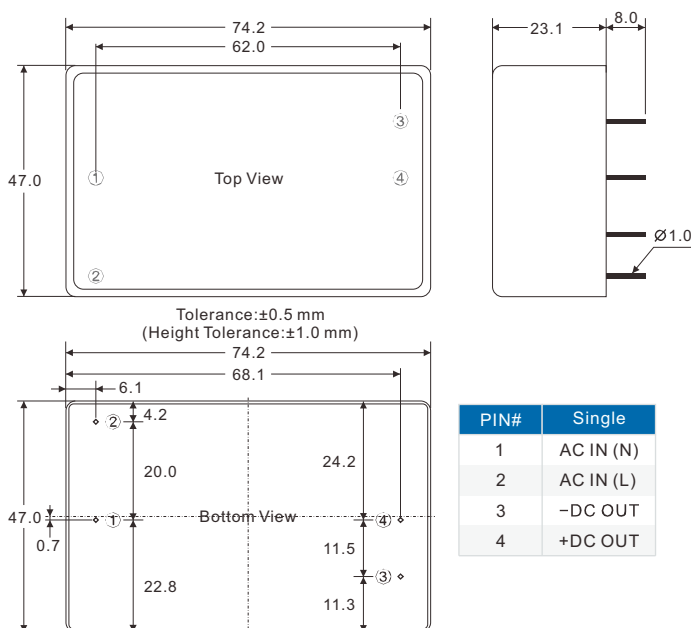
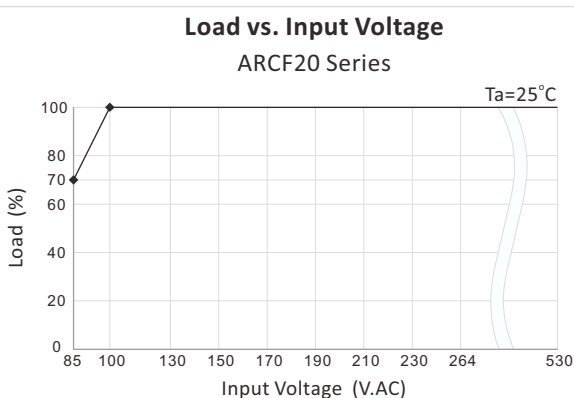
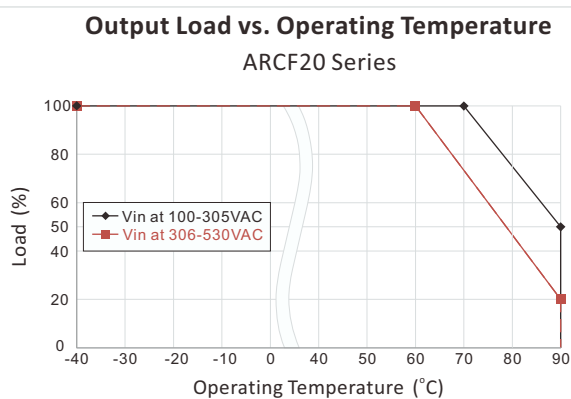
Compatible Screw Terminal Option

Wide Operating Temperature:
-40°C~+90°C with derating

Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ARCF20 Single Output				Size: 2.92 x 1.85 x 0.91 inches		
ARCF20-5S 	20	85~530	5	4000	86	120
ARCF20-12S 	20	85~530	12	1666	85	120
ARCF20-15S 	20	85~530	15	1333	85	150
ARCF20-24S 	20	85~530	24	833	86	240

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT



More Details

BFC20 SERIES

20W AC-DC ITE Power Module

NEW



CE CB
E199779
UL / IEC / EN 62368-1

ITE Power Module — BFC20

Unified Selection Guide



No Load Power Consumption < 0.15W



5000m Altitude Application



I/O Isolation: 4000VAC



Isolation Class II



Wide Operating Temperature:
-40°C~+85°C with derating



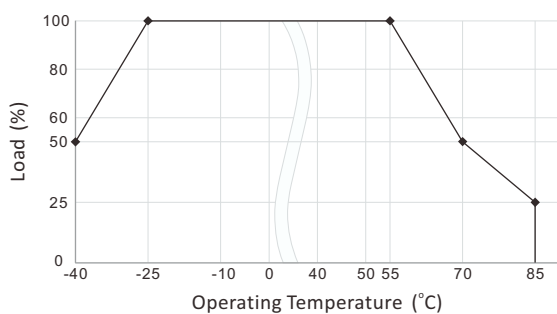
Protection: OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BFC20 Single Output				Size: 2.15 x 1.153 x 0.933 inches		
BFC20-5S	20	85~305	5	4000	83	100
BFC20-12S	20	85~305	12	1666	86	100
BFC20-15S	20	85~305	15	1333	86	100
BFC20-24S	20	85~305	24	833	87	100

Derating

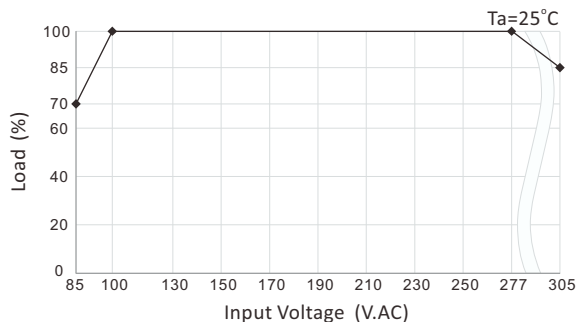
Output Load vs. Operating Temperature

BFC20 Series

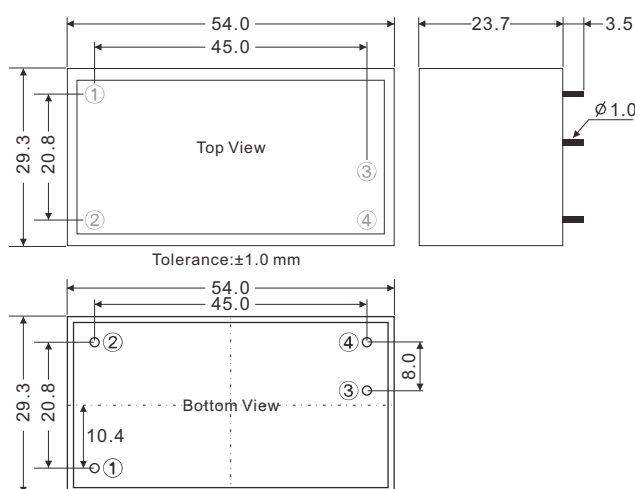


Load vs. Input Voltage

BFC20 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



More Details

ATC30 SERIES

30W AC-DC ITE Power Module



UL / IEC / EN 62368-1



Unified Selection Guide

- No Load Power Consumption < 0.1W
- I/O Isolation: 3000VAC
- Isolation Class II
- Compatible Screw Terminal Option
- Operating Temperature: -40°C~+70°C with derating
- Protection:OPP / OVP / SCP

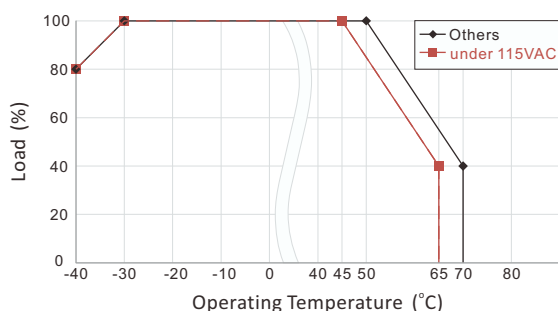
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ATC30 Single Output				Size: 2.52 x 1.8 x 0.93 inches		
ATC30-3.3S ☐	16.5	90~305	3.3	5000	80	100
ATC30-5S ☐	25	90~305	5.1	5000	84	100
ATC30-12S ☐	30	90~305	12	2500	89	150
ATC30-15S ☐	30	90~305	15	2000	86	150
ATC30-24S ☐	30	90~305	24	1250	76	240

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

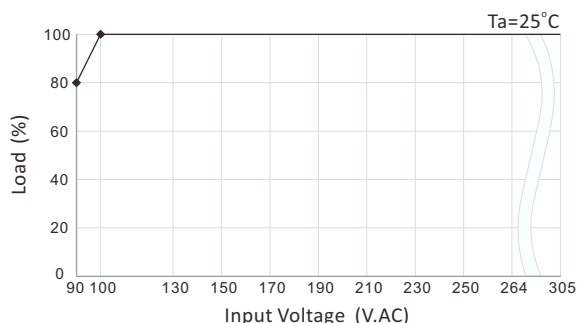
Output Load vs. Operating Temperature

ATC30 Series

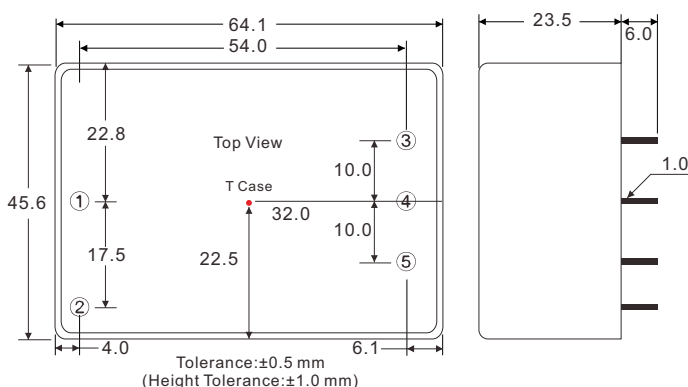


Load vs. Input Voltage

ATC30 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	NC
5	+DC OUT



More Details

AJC SERIES

40W AC-DC ITE Power Module



UL / IEC / EN 62368-1

ITE Power Module — AJC

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Unified Selection Guide

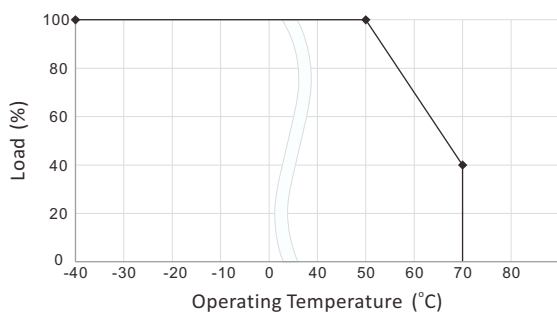
- Multiple Output
- Low Ripple and Low Noise
- I/O Isolation: 3000VAC
- Certified Screw Terminal Option
- Operating Temperature: -40°C~+70°C with derating
- Protection: OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AJC Single Output				Size: 3.52 x 2.52 x 0.98 inches		
AJC-3.3S ☐	26.4	90~264	3.3	8000	74	50
AJC-5S ☐	40	90~264	5.1	8000	81	50
AJC-9S ☐	40	90~264	9	4444	82	90
AJC-12S ☐	40	90~264	12	3333	84	120
AJC-15S ☐	40	90~264	15	2666	83	150
AJC-24S ☐	40	90~264	24	1667	83	240
AJC Dual Output				Size: 3.52 x 2.52 x 0.98 inches		
AJC-5D ☐	40	90~264	±5	±4000	81	50
AJC-12D ☐	40	90~264	±12	±1666	83	120
AJC-15D ☐	40	90~264	±15	±1333	83	150
AJC-5S12S ☐	40	90~264	5 / 12	5000 / 1250	82	50/120
AJC-5S24S ☐	40	90~264	5 / 24	5000 / 625	82	50/150
AJC Triple Output				Size: 3.52 x 2.52 x 0.98 inches		
AJC-5S12D ☐	40	90~264	5 / ±12	5000 / ±600	80	50/120
AJC-5S15D ☐	40	90~264	5 / ±15	5000 / ±500	81	50/150

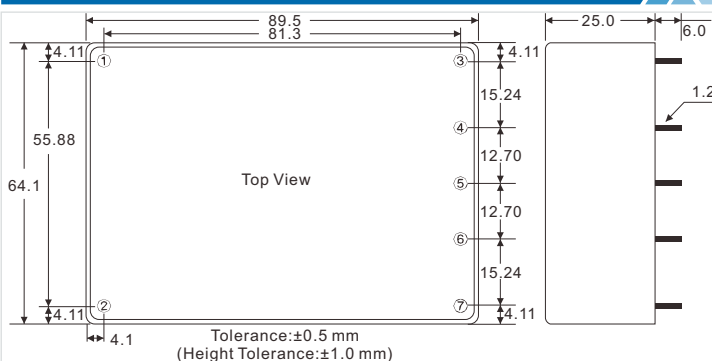
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

Output Load vs. Operating Temperature
AJC Series



Outline Dimensions



PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
2	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
3	+DC OUT	+DC OUT	+OUT1	+DC OUT
4	NO PIN	NO PIN	+5V OUT	+5V OUT
5	-DC OUT	COMMON	+5V RTN	COMMON
6	NO PIN	NO PIN	+OUT1 RTN	+5V RTN
7	NC	-DC OUT	NO PIN	-DC OUT



More Details

ATCV40 SERIES

40W AC-DC ITE Power Module



UL / IEC / EN 62368-1
IEC / EN 61558-1 (meet)
IEC / EN 61558-2-16 (meet)
IEC / EN 60335-1 (meet)

ITE Power Module — ATCV40

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Unified Selection Guide



No Load Power Consumption < 0.1W



5000m Altitude Application



Over-Voltage Category III



EMC Compliant without External Components



I/O Isolation: 4300VAC



Isolation Class II



Compatible Screw Terminal Option



Wide Operating Temperature:
-40°C~+85°C with derating

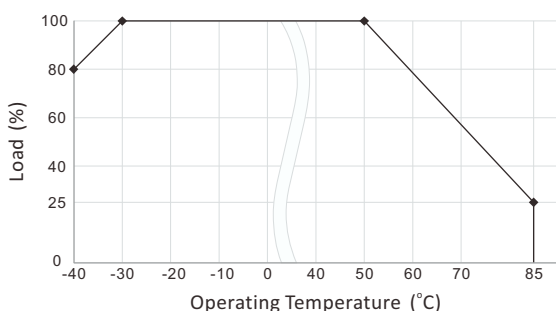
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ATCV40 Single Output				Size: 2.52 x 1.8 x 0.93 inches		
ATCV40-5S ☐	35	90~305	5.1	7000	87	120
ATCV40-12S ☐	40	90~305	12	3333	90	120
ATCV40-15S ☐	40	90~305	15	2666	90	150
ATCV40-24S ☐	40	90~305	24	1666	89	240
ATCV40-48S ☐	40	90~305	48	833	89	480

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

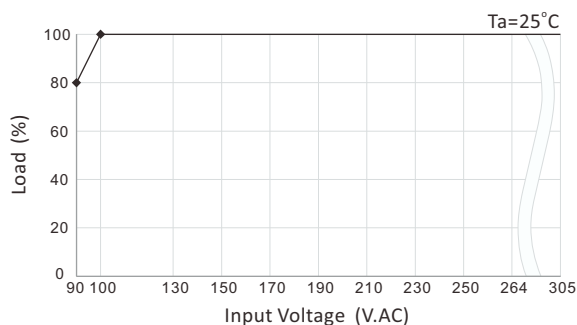
Output Load vs. Operating Temperature

ATCV40 Series

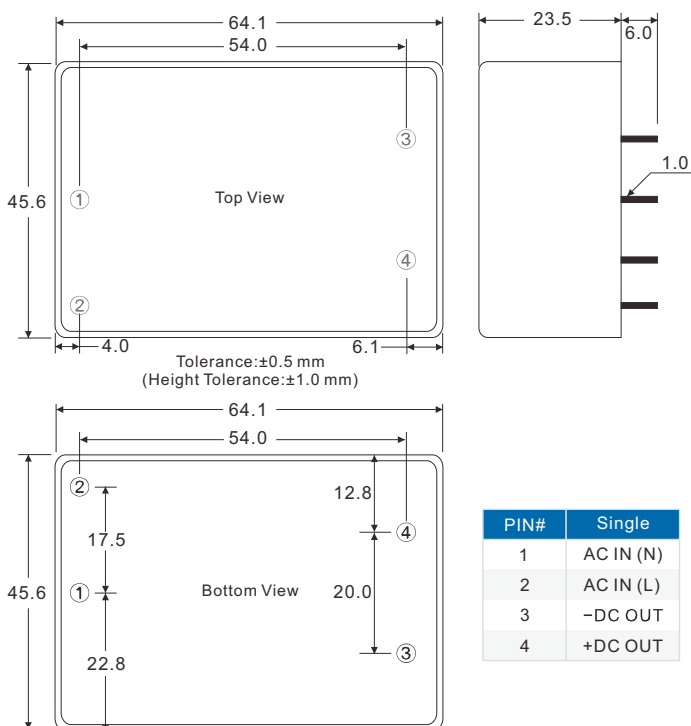


Load vs. Input Voltage

ATCV40 Series



Outline Dimensions





More Details

ATCW40 SERIES

40W AC-DC ITE Power Module



CE **us** **CB**
E199779
UL / IEC / EN 62368-1

ITE Power Module — ATCW40

Unified Selection Guide

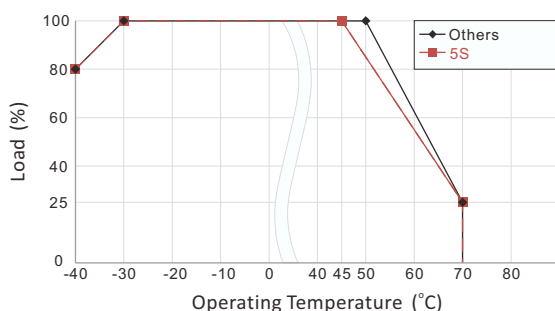
- No Load Power Consumption < 0.1W (ATCW40-48S: < 0.15W)
- Over-Voltage Category III
- EMC Compliant without External Components
- I/O Isolation: 5700VAC
- Isolation Class II
- Compatible Screw Terminal Option
- Operating Temperature: -40°C~+70°C with derating
- Protection: OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ATCW40 Single Output Size: 2.52 x 1.8 x 0.93 inches						
ATCW40-5S ☐	35	90~330	5.1	7000	87	120
ATCW40-12S ☐	40	90~330	12	3333	89	120
ATCW40-15S ☐	40	90~330	15	2666	89	150
ATCW40-24S ☐	40	90~330	24	1666	88	240
ATCW40-48S ☐	40	90~330	48	833	88	480

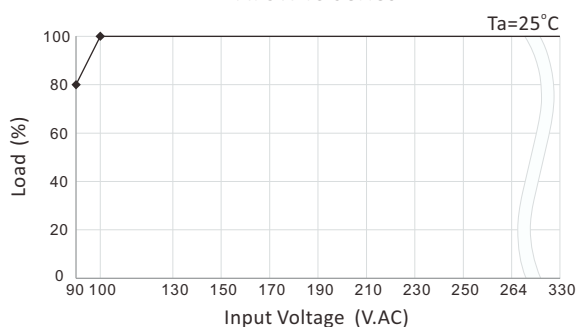
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

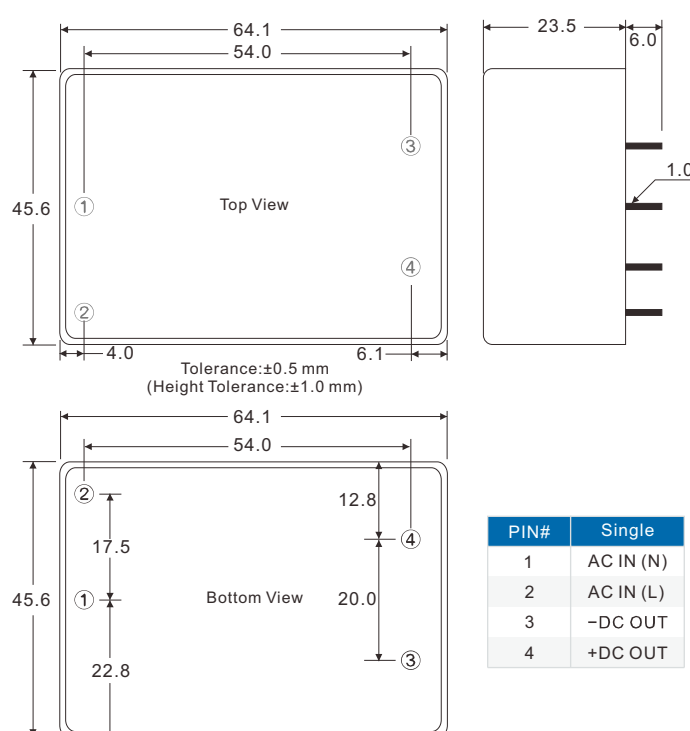
Output Load vs. Operating Temperature
ATCW40 Series



Load vs. Input Voltage
ATCW40 Series



Outline Dimensions





More Details

BTC40 SERIES

40W AC-DC ITE Power Module

NEW



UL / IEC / EN 62368-1

Unified Selection Guide

- Efficiency up to 90%
- 5000m Altitude Application
- I/O Isolation: 4200VAC
- Isolation Class II
- Wide Operating Temperature: -40°C~+85°C with derating
- Protection: OCP / OVP / SCP

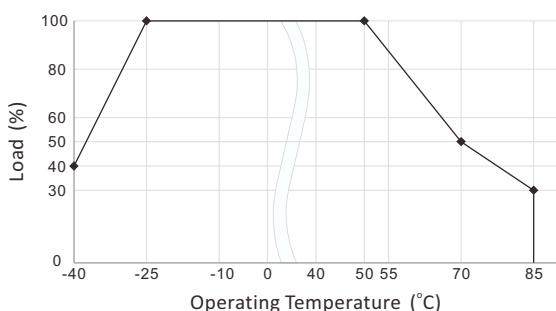
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BTC40 Single Output				Size: 2.736 x 1.535 x 1.004 inches		
BTC40-5S	35	85~305	5	7000	86	150
BTC40-12S	40	85~305	12	3333	89	150
BTC40-15S	40	85~305	15	2666	90	150
BTC40-24S	40	85~305	24	1670	89	150
BTC40-48S	40	85~305	48	833	90	150

ITE Power Module — BTC40

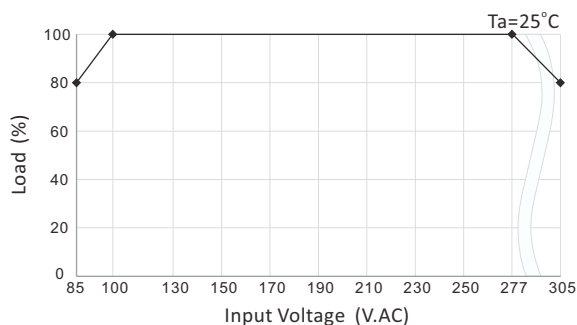
28

Derating

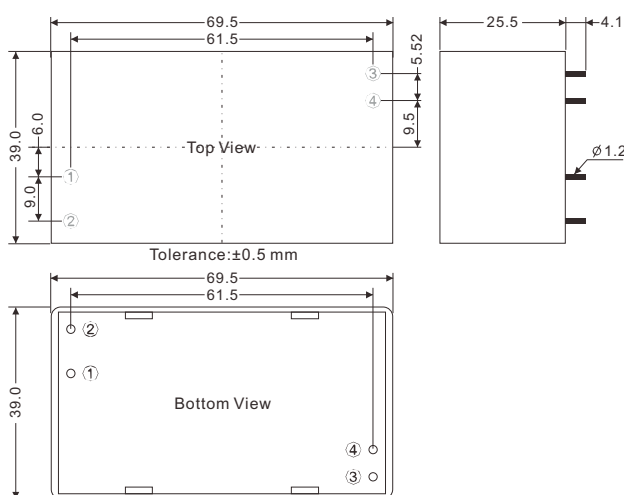
Output Load vs. Operating Temperature
BTC40 Series



Load vs. Input Voltage
BTC40 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



More Details

ANC50 SERIES

50W AC-DC ITE Power Module



CE
E199779
UL / IEC / EN 62368-1

ITE Power Module — ANC50

Unified Selection Guide

- Low Ripple and Low Noise
- I/O Isolation: 3000VAC
- Isolation Class II
- Compatible Screw Terminal Option
- Operating Temperature:
-40°C~+70°C with derating
- Protection:OPP / OVP / SCP

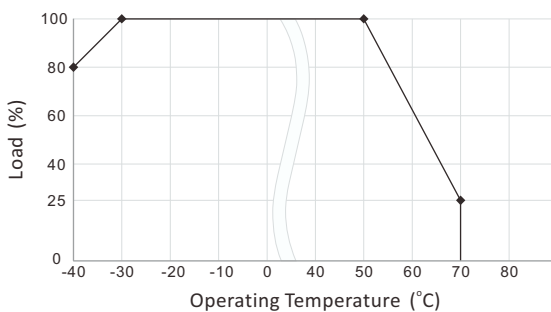
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ANC50 Single Output				Size: 2.91 x 2.13 x 0.87 inches		
ANC50-5S ☐	40	90~264	5.1	8000	86	120
ANC50-12S ☐	50	90~264	12	4167	90	120
ANC50-15S ☐	50	90~264	15	3333	87	150
ANC50-24S ☐	50	90~264	24	2083	88	240
ANC50-48S ☐	50	90~264	48	1040	89	480

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

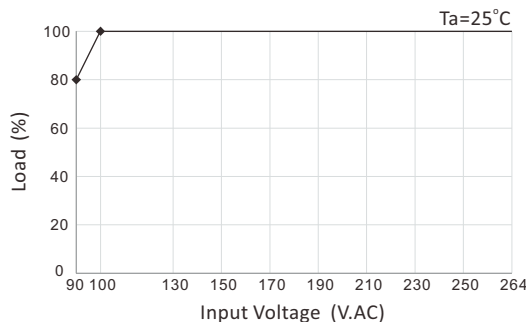
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Derating

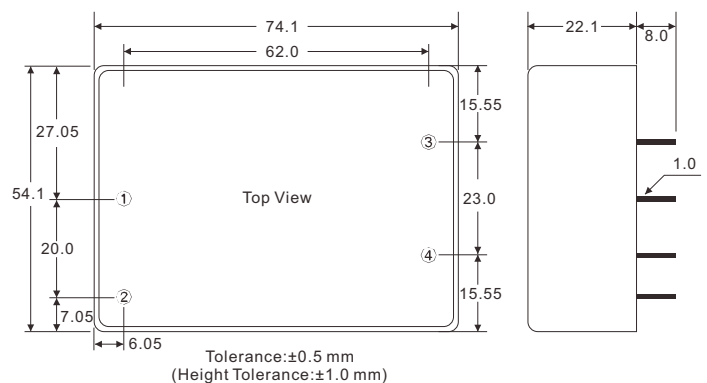
Output Load vs. Operating Temperature
ANC50 Series



Load vs. Input Voltage
ANC50 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT



More Details

ARCV60 SERIES

60W AC-DC ITE Power Module

ITE Power Module — ARCV60

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UL / IEC / EN 62368-1
IEC / EN 61558-1 (meet)
IEC / EN 61558-2-16 (meet)
IEC / EN 60335-1 (meet)



Unified Selection Guide



No Load Power Consumption < 0.1W



5000m Altitude Application



Over-Voltage Category III



EMC Compliant without External Components



I/O Isolation: 4300VAC



Isolation Class II



Compatible Screw Terminal Option



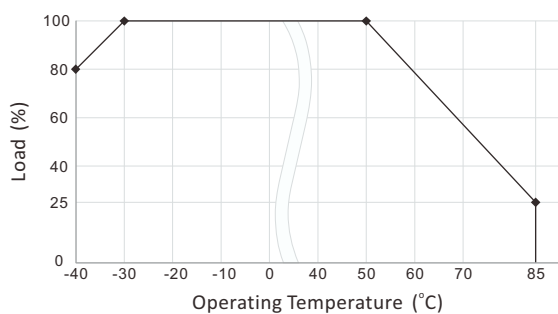
Wide Operating Temperature:
-40°C~+85°C with derating

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ARCV60 Single Output				Size: 2.92 x 1.85 x 0.91 inches		
ARCV60-12S□	60	90~305	12	5000	90	120
ARCV60-15S□	60	90~305	15	4000	90	150
ARCV60-24S□	60	90~305	24	2500	90	240

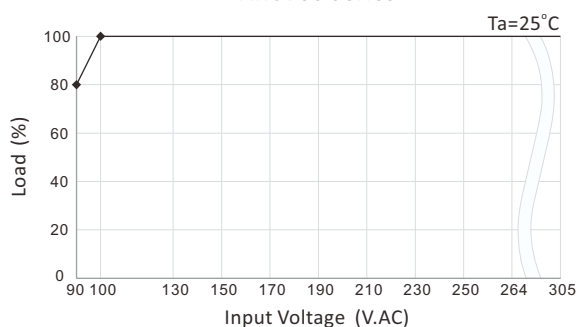
□ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

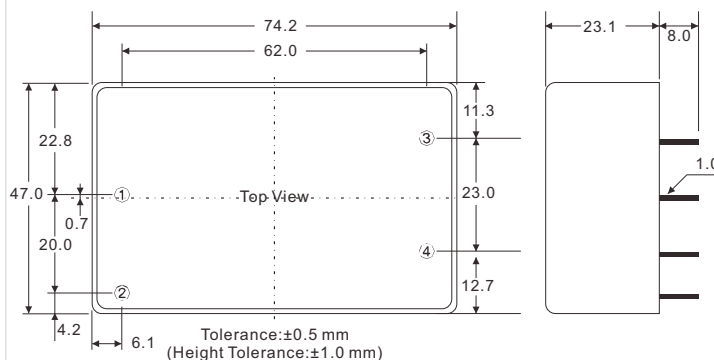
Output Load vs. Operating Temperature
ARCV60 Series



Load vs. Input Voltage
ARCV60 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT



ARCV65 SERIES

65W AC-DC ITE Power Module



NEW

Preliminary



UL / IEC / EN 62368-1
IEC / EN 61558-1 (meet)
IEC / EN 61558-2-16 (meet)
IEC / EN 60335-1 (meet)

Unified Selection Guide

- No Load Power Consumption < 0.1W
- 5000m Altitude Application
- Over-Voltage Category III
- EMC Compliant without External Components
- I/O Isolation: 4300VAC
- Isolation Class II
- Compatible Screw Terminal Option
- Wide Operating Temperature: -40°C~+85°C with derating

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ARCV65 Single Output				Size: 2.92 x 1.85 x 0.91 inches		
ARCV65-12S	65	90~305	12	5410	90	120
ARCV65-15S	65	90~305	15	4330	90	150
ARCV65-24S	65	90~305	24	2700	90	240

□ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

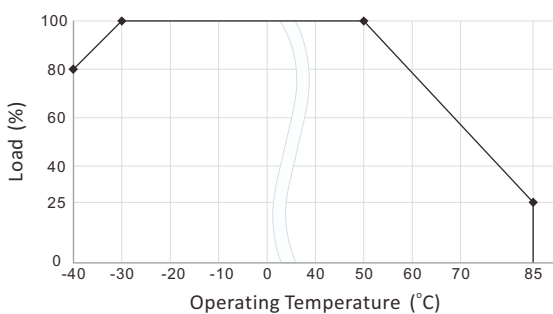
* Preliminary specifications, design and features are subject to change as development continues.
All specifications are subject to change without prior notice.

ITE Power Module — ARCV65

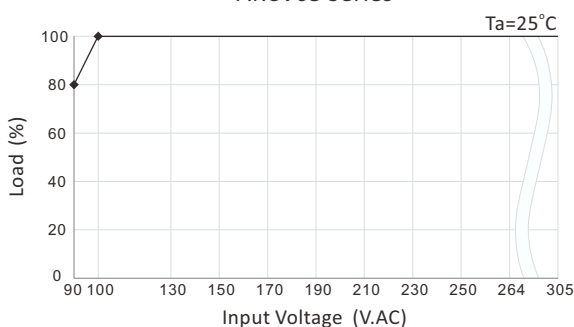
31

Derating

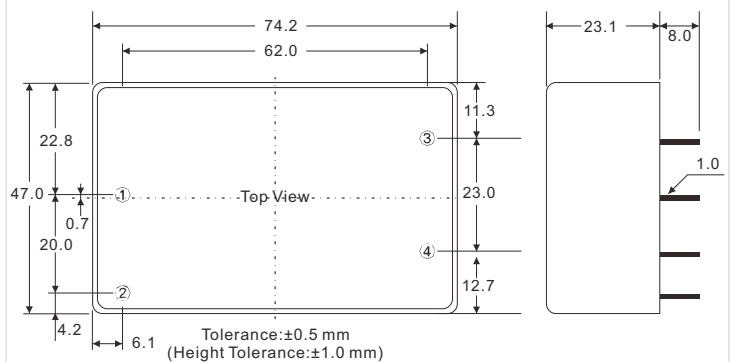
Output Load vs. Operating Temperature
ARCV65 Series



Load vs. Input Voltage
ARCV65 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT



More Details

AJCV100 SERIES

100W AC-DC ITE Power Module

ITE Power Module — AJCV100



UL / IEC / EN 62368-1
IEC / EN 61558-1 (meet)
IEC / EN 61558-2-16 (meet)
IEC / EN 60335-1 (meet)



Unified Selection Guide

- No Load Power Consumption < 0.15W
- 5000m Altitude Application
- Over-Voltage Category III
- EMC Compliant without External Components
- Remote ON/OFF Control
- Adjustable Output Voltage
- I/O Isolation: 4300VAC and Isolation Class II
- Compatible Screw Terminal Option

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AJCV100 Single Output				Size: 3.5 x 2.5 x 1.09 inches		
AJCV100-12S ☐	100	90~264	12	8333	93	120
AJCV100-24S ☐	100	90~264	24	4166	93.5	200
AJCV100-48S ☐	100	90~264	48	2083	93.5	240

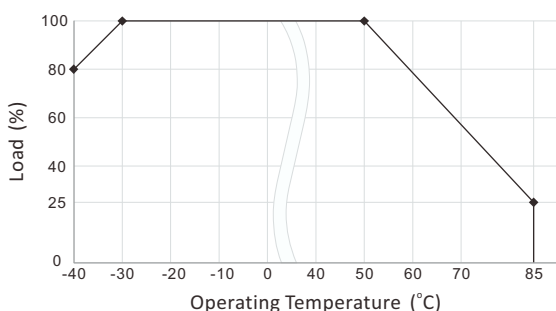
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

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Derating

Output Load vs. Operating Temperature

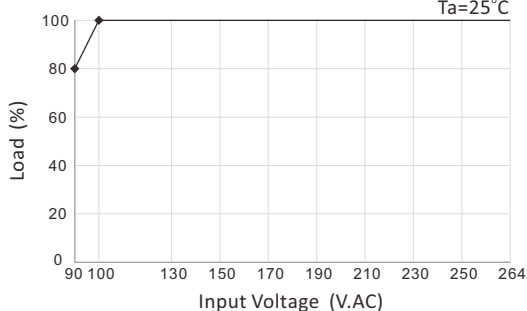
AJCV100 Series



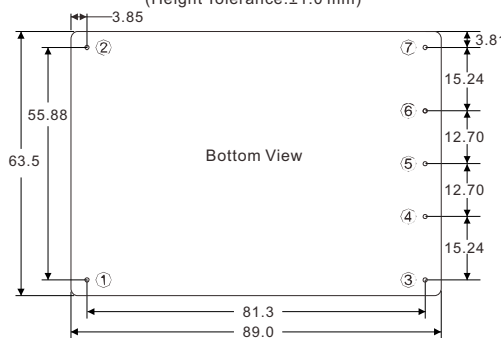
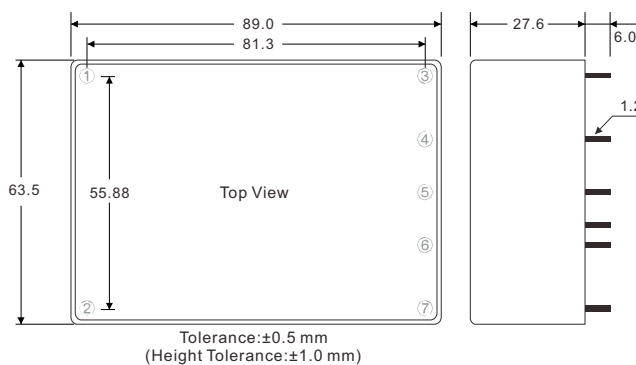
Load vs. Input Voltage

AJCV100 Series

Ta=25°C



Outline Dimensions



PIN#	Φ	Single
1	1.2	AC IN (N)
2	1.2	AC IN (L)
3	1.2	+DC OUT
4	1.2	TRIM
5	1.2	-DC OUT
6	1.2	NO PIN
7	1.2	ON /OFF
(Provide +5Vdc Controlled)		
ΦTolerances: ±0.1mm		



AJCV150 SERIES

150W AC-DC ITE Power Module



UL / IEC / EN 62368-1

ITE Power Module — AJCV150

Unified Selection Guide

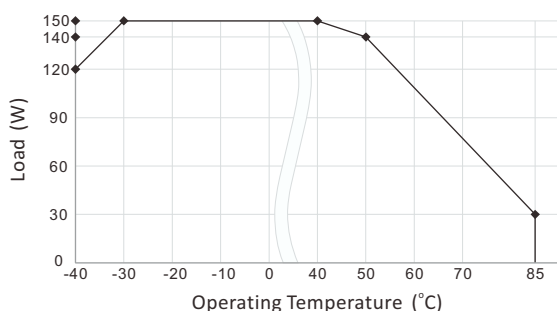
- No Load Power Consumption < 0.3W
- 5000m Altitude Application
- Over-Voltage Category III
- EMC Compliant without External Components
- Remote ON/OFF Control
- Adjustable Output Voltage
- I/O Isolation: 4300VAC and Isolation Class II
- Compatible Screw Terminal Option

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AJCV150 Single Output				Size: 3.5 x 2.5 x 1.09 inches		
AJCV150-12S ☐	150	90~264	12	1200	93	120120
AJCV150-24S ☐	150	90~264	24	6250	93.5	150200
AJCV150-48S ☐	150	90~264	48	3125	93.5	240240

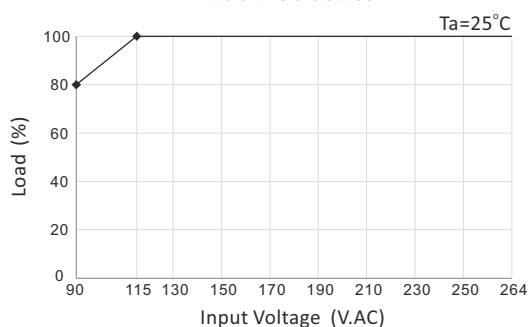
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

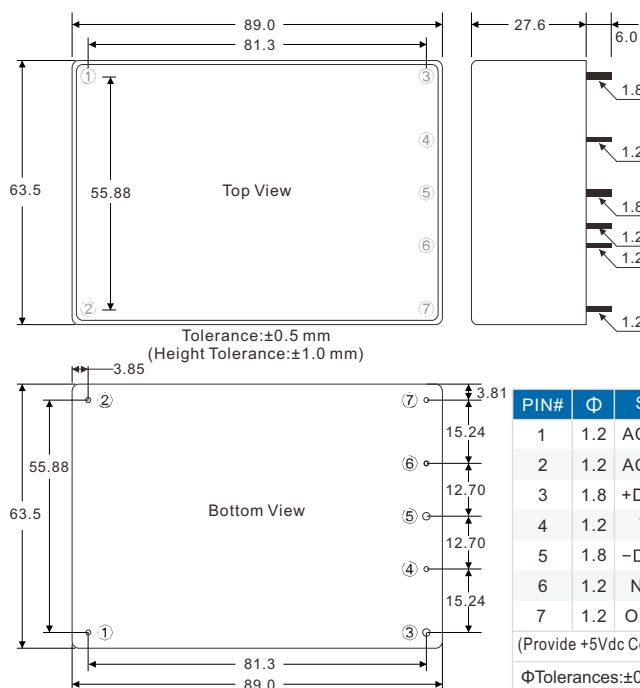
Output Load vs. Operating Temperature
AJCV150 Series



Load vs. Input Voltage
AJCV150 Series



Outline Dimensions



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More Details

AOCH05 SERIES

5W AC-DC Household/ITE Power Module

Household Power Module — APOCH05



UL / IEC / EN 62368-1
IEC / EN 60335-1
IEC / EN 61558-2-16



Unified Selection Guide

ITE + Household



No Load Power Consumption < 0.1W



Operating Altitude 5000m
(UL / IEC / EN 62368-1)



EMC Compliant without External
Components



I/O Isolation: 4000VAC



Isolation Class II



Operating Temperature:
-40°C~+70°C with derating



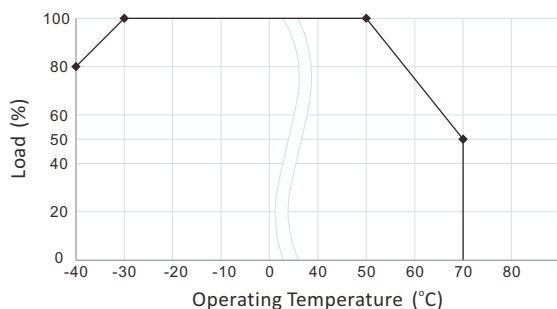
Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AOCH05 Single Output				Size: 1.46 x 1.08 x 0.69 inches		
AOCH05-3.3S	5	90~305	3.3	1515	72	100
AOCH05-5S	5	90~305	5	1000	77	100
AOCH05-12S	5.04	90~305	12	420	81	150
AOCH05-24S	5.04	90~305	24	210	83	200

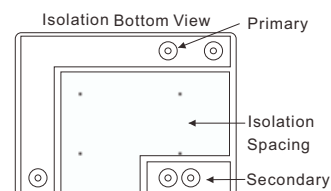
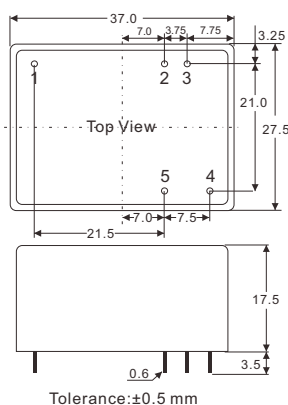
34

Derating

Output Load vs. Operating Temperature
AOCH05 Series



Outline Dimensions



PIN#	Single
1	NC
2	+Vo
3	GND
4	AC IN (L)
5	AC IN (N)



More Details

AOCH10 SERIES

10W AC-DC Household/ITE Power Module



UL / IEC / EN 62368-1
IEC / EN 60335-1
IEC / EN 61558-2-16

Unified Selection Guide

ITE + Household

- No Load Power Consumption < 0.1W
- Operating Altitude 5000m (UL / IEC / EN 62368-1)
- EMC Compliant without External Components
- I/O Isolation: 4000VAC
- Isolation Class II
- Operating Temperature: -40°C~+70°C with derating
- Protection:OPP / OVP / SCP

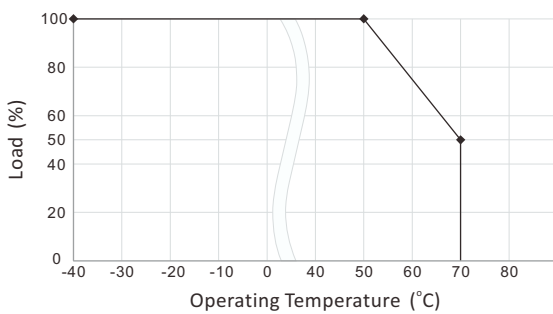
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AOCH10 Single Output				Size: 1.46 x 1.08 x 0.79 inches		
AOCH10-5S	10	90~305	5	2000	81	150
AOCH10-12S	10	90~305	12	833	85	150
AOCH10-15S	10	90~305	15	667	86	160
AOCH10-24S	10	90~305	24	417	86	240

Household Power Module — Aoch10

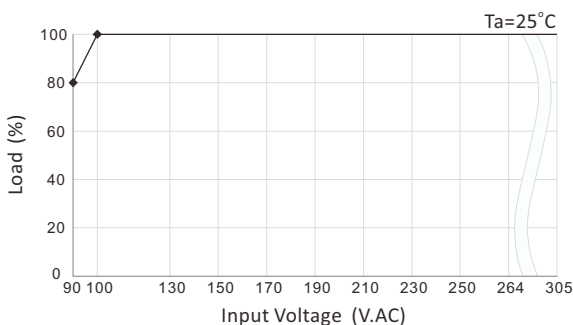
35

Derating

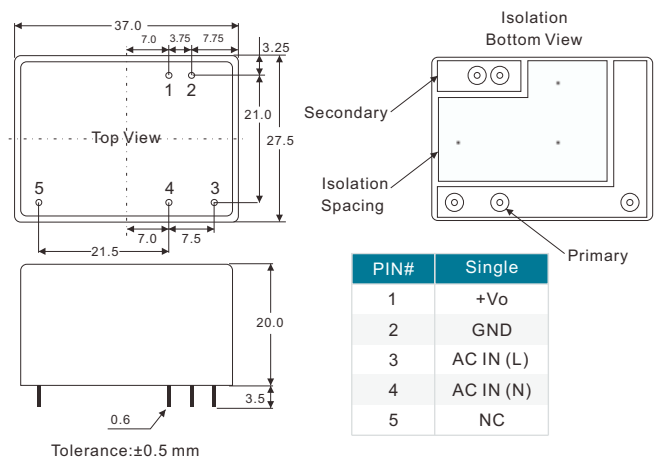
Output Load vs. Operating Temperature
AOCH10 Series



Load vs. Input Voltage
AOCH10 Series



Outline Dimensions





More Details

AFCH25 SERIES

25W AC-DC Household/ITE Power Module



UL / IEC / EN 62368-1
IEC / EN 60335-1(A2 Series N/A)
IEC / EN 61558-2-16(A2 Series N/A)



Unified Selection Guide

ITE + Household



No Load Power Consumption < 0.1W



Operating Altitude 5000m
(UL / IEC / EN 62368-1)



EMC Compliant without External Components



I/O Isolation: 4000VAC



Isolation Class II



Certified Screw Terminal Option



Operating Temperature:
-40°C~+70°C with derating



Protection:OPP / OVP / SCP

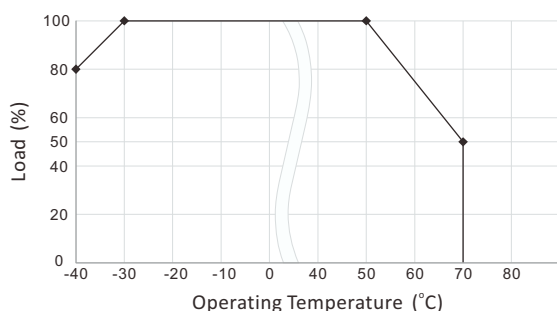
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AFCH25 Single Output				Size: 2.07 x 1.08 x 0.93 inches		
AFCH25-5.1S□	20	90~305	5.1	3922	84	120
AFCH25-12S□	25	90~305	12	2083	88	150
AFCH25-15S□	25	90~305	15	1666	88	160
AFCH25-24S□	25	90~305	24	1042	87	240

□:-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

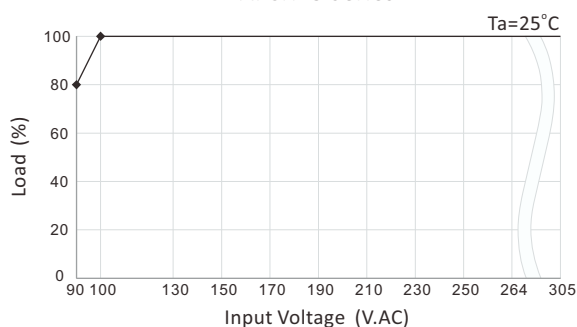
Output Load vs. Operating Temperature

AFCH25 Series

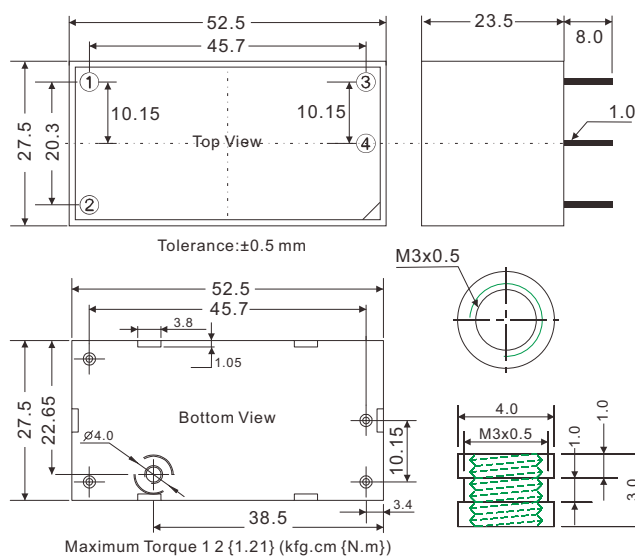


Load vs. Input Voltage

AFCH25 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



More Details

ATCH30 SERIES

30W AC-DC Household/ITE Power Module



UL / IEC / EN 62368-1
IEC / EN 60335-1(A2 Series N/A)
IEC / EN 61558-2-16(A2 Series N/A)

Unified Selection Guide

ITE + Household



No Load Power Consumption < 0.1W



Operating Altitude 5000m
(UL / IEC / EN 62368-1)



EMC Compliant without External
Components



I/O Isolation: 4000VAC



Isolation Class II



Certified Screw Terminal Option



Wide Operating Temperature:
-40°C~+85°C with derating



Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
Atch30 Single Output				Size: 2.54 x 1.79 x 0.87 inches		
ATCH30-5.1S ☐	23.46	90~305	5.1	4600	84	120
ATCH30-12S ☐	30	90~305	12	2500	88	150
ATCH30-15S ☐	30	90~305	15	2000	87	150
ATCH30-24S ☐	30	90~305	24	1250	86	240

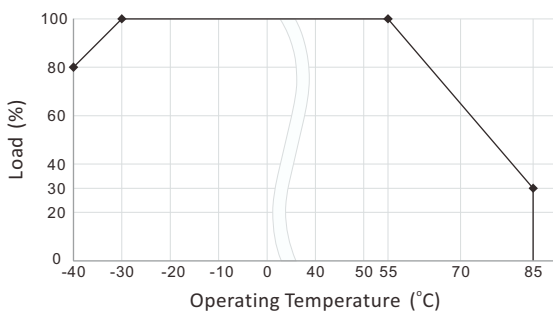
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Household Power Module — ATCH30

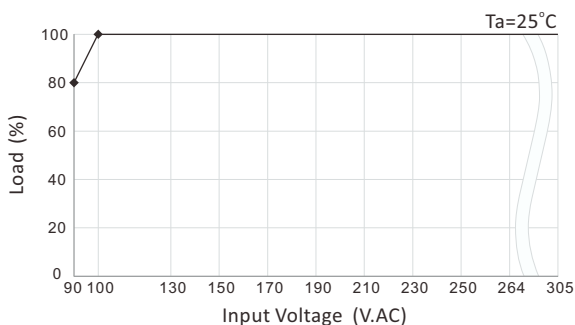
37

Derating

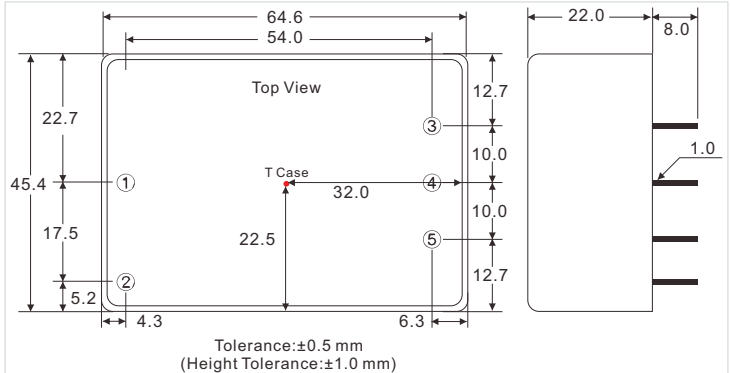
Output Load vs. Operating Temperature
ATCH30 Series



Load vs. Input Voltage
ATCH30 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	NC
5	+DC OUT



More Details

ANCH50 SERIES

50W AC-DC Household/ITE Power Module

Household Power Module — ANCH50

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UL / IEC / EN 62368-1
IEC / EN 60335-1(A2 Series N/A)
IEC / EN 61558-2-16(A2 Series N/A)



Unified Selection Guide

ITE + Household



No Load Power Consumption < 0.1W



Operating Altitude 5000m
(UL / IEC / EN 62368-1)



EMC Compliant without External
Components



I/O Isolation: 4000VAC



Isolation Class II



Certified Screw Terminal Option



Operating Temperature:
-40°C~+70°C with derating



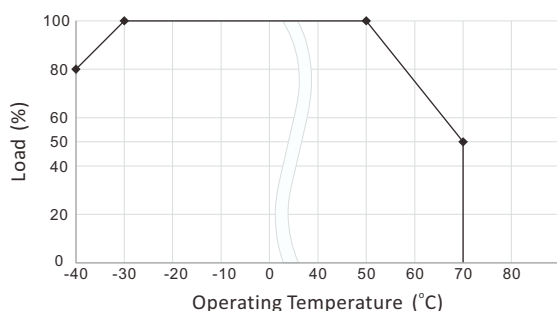
Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ANCH50 Single Output				Size: 2.92 x 1.85 x 0.91 inches		
ANCH50-12S ☐	50	90~305	12	4167	89	120
ANCH50-15S ☐	50	90~305	15	3333	88	150
ANCH50-24S ☐	50	90~305	24	2083	88	240

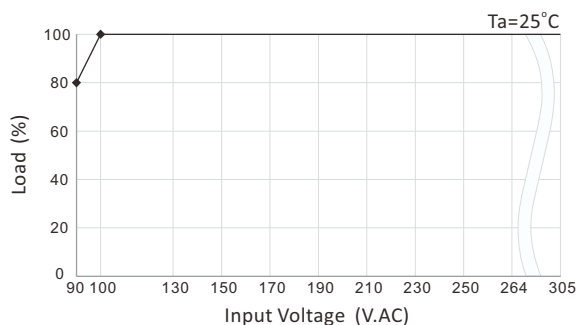
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

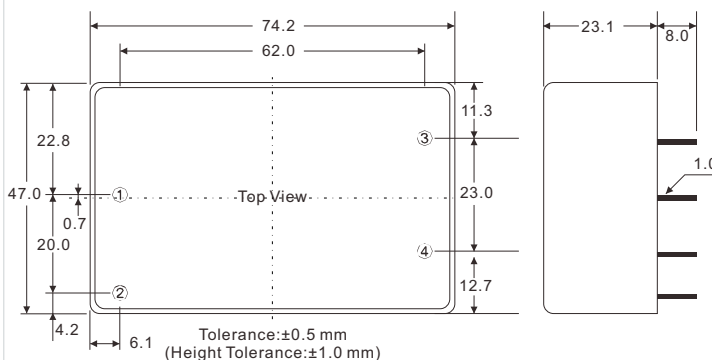
Output Load vs. Operating Temperature
ANCH50 Series



Load vs. Input Voltage
ANCH50 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT



More Details

ARC60 SERIES

60W AC-DC Household/ITE Power Module



UL / IEC / EN 62368-1
IEC / EN 60335-1(A2 Series N/A)
IEC / EN 61558-2-16(A2 Series N/A)

Unified Selection Guide

ITE + Household

- No Load Power Consumption < 0.1W
- Operating Altitude 5000m (UL / IEC / EN 62368-1)
- EMC Compliant without External Components
- I/O Isolation: 4000VAC
- Isolation Class II
- Certified Screw Terminal Option
- Wide Operating Temperature: -40°C~+85°C with derating
- Protection: OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
ANCH50 Single Output				Size: 2.92 x 1.85 x 0.91 inches		
ARC60-12S ☐	60	90~264	12	5000	90	120
ARC60-15S ☐	60	90~264	15	4000	90	150
ARC60-24S ☐	60	90~264	24	2500	89	240

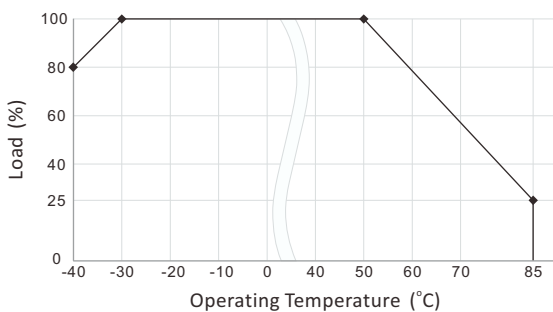
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Household Power Module — ARC60

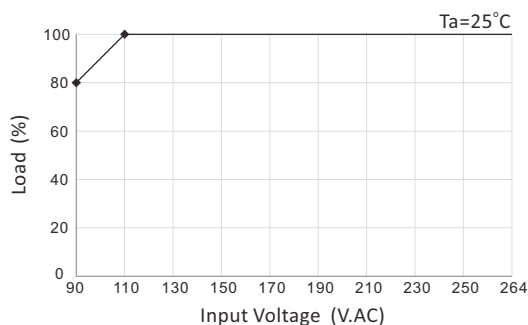
39

Derating

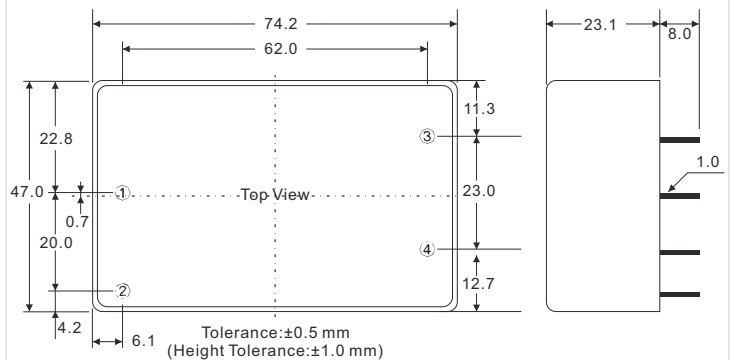
Output Load vs. Operating Temperature
ARC60 Series



Load vs. Input Voltage
ARC60 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	+DC OUT



More Details

MFC15 SERIES

15W AC-DC Medical Power Module

Medical Power Module — MFC15



UL / IEC / EN 60950-1
UL / IEC / EN 60601-1



Unified Selection Guide

ITE + Medical



No Load Power Consumption < 0.1W



Low Ripple and Low Noise



I/O Isolation: 4000VAC



Certified Screw Terminal Option



Wide Operating Temperature:
-40°C~+80°C with derating



Protection:OPP / OVP / SCP

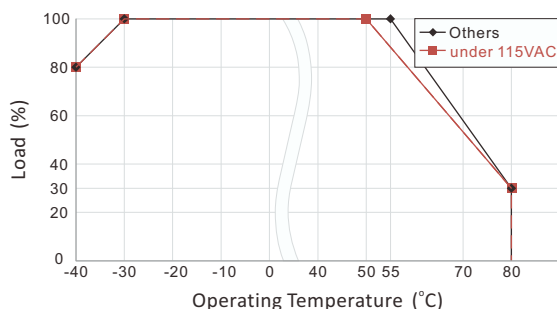
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MFC15 Single Output				Size: 2.07 x 1.08 x 0.93 inches		
MFC15-5S ☐	15	90~264	5	3000	79	75
MFC15-9S ☐	15	90~264	9	1666	80	75
MFC15-12S ☐	15	90~264	12	1250	84	120
MFC15-15S ☐	15	90~264	15	1000	84	150
MFC15-24S ☐	15	90~264	24	625	85	240

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

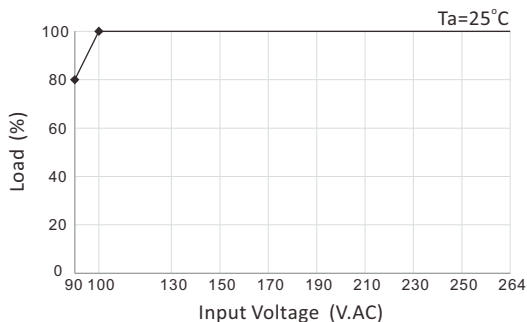
40

Derating

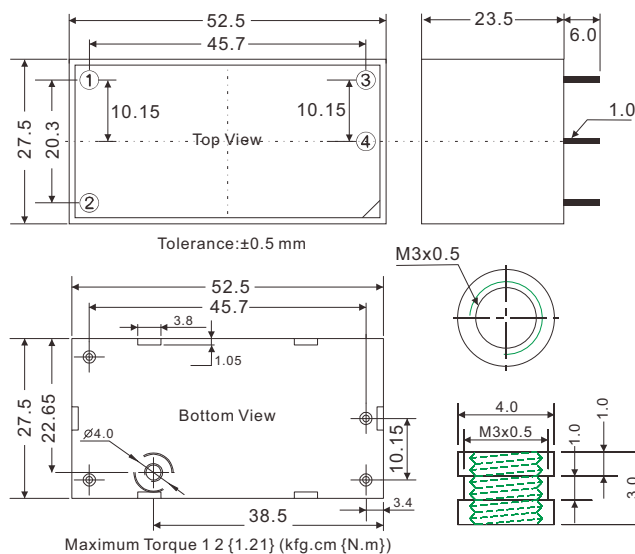
Output Load vs. Operating Temperature
MFC15 Series



Load vs. Input Voltage
MFC15 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



More Details

MTC SERIES

15W AC-DC Medical Power Module



CE CB
E308218
UL / IEC / EN 60601-1

Medical Power Module — MTC

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Unified Selection Guide

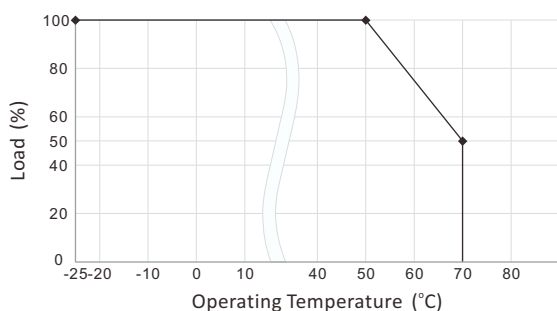
- Multiple Output
- Low Ripple and Low Noise
- I/O Isolation: 4000VAC
- Compatible Screw Terminal Option
- Operating Temperature:
-25°C~+70°C with derating
- Protection: OCP/ OVP/ OTP/ SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MTC Single Output				Size: 2.52 x 1.8 x 0.93 inches		
MTC-3.3S ☐	9.9	90~264	3.3	3000	75	33
MTC-5S ☐	15	90~264	5	3000	79	50
MTC-7.35S ☐	15	90~264	7.35	2040	79	74
MTC-9S ☐	15	90~264	9	1666	80	90
MTC-12S ☐	15	90~264	12	1250	81	120
MTC-15S ☐	15	90~264	15	1000	82	150
MTC-24S ☐	15	90~264	24	625	83	240
MTC Dual Output				Size: 2.52 x 1.8 x 0.93 inches		
MTC-5D ☐	15	90~264	±5	±1500	79	50
MTC-12D ☐	15	90~264	±12	±625	82	120
MTC-15D ☐	15	90~264	±15	±500	82	150
MTC Triple Output				Size: 2.52 x 1.8 x 0.93 inches		
MTC-5S12D ☐	15	90~264	5 / ±12	2000 / ±200	78	50/120
MTC-5S15D ☐	15	90~264	5 / ±15	2000 / ±150	78	50/150

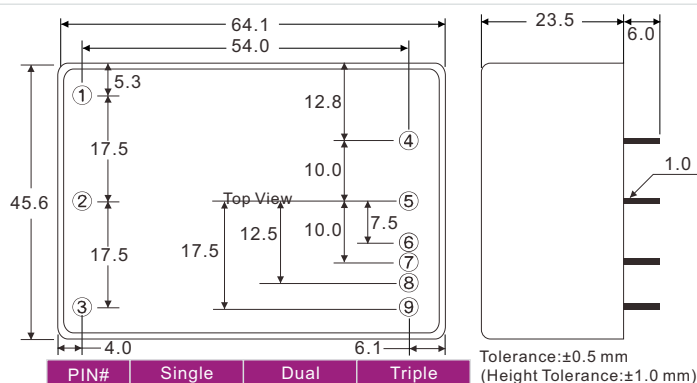
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

Output Load vs. Operating Temperature
MTC Series



Outline Dimensions



PIN#	Single	Dual	Triple
1	NO PIN	NO PIN	NO PIN
2	AC IN (L)	AC IN (L)	AC IN (L)
3	AC IN (N)	AC IN (N)	AC IN (N)
4	-DC OUT	-DC OUT	+5V RTN
5	NO PIN	COMMON	+5V OUT
6	NO PIN	NO PIN	-DC OUT
7	+DC OUT	+DC OUT	NO PIN
8	NO PIN	NO PIN	COMMON
9	NO PIN	NO PIN	+DC OUT

Tolerance: ±0.5 mm
(Height Tolerance: ±1.0 mm)



More Details

MZC20 SERIES

20W AC-DC Medical/ITE Power Module



UL / IEC / EN 60950-1
UL / IEC / EN 60601-1



Unified Selection Guide ITE + Medical

- No Load Power Consumption < 0.1W
- Low Ripple and Low Noise
- I/O Isolation: 4000VAC
- Certified Screw Terminal Option
- Operating Temperature: -40°C~+80°C with derating
- Protection:OPP / OVP / SCP

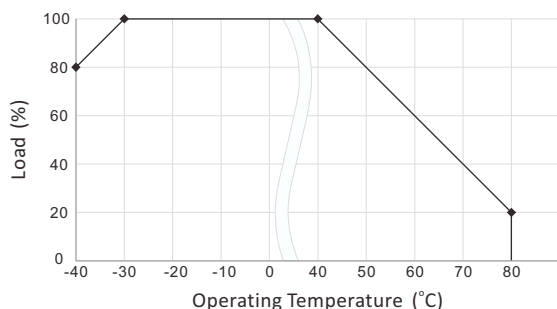
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MZC20 Single Output				Size: 2.07 x 1.08 x 0.93 inches		
MZC20-12S ☐	20	90~264	12	1667	83	150
MZC20-24S ☐	20	90~264	24	833	82	240

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

Output Load vs. Operating Temperature

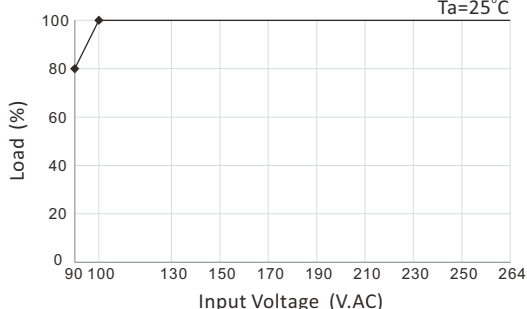
MZC20 Series



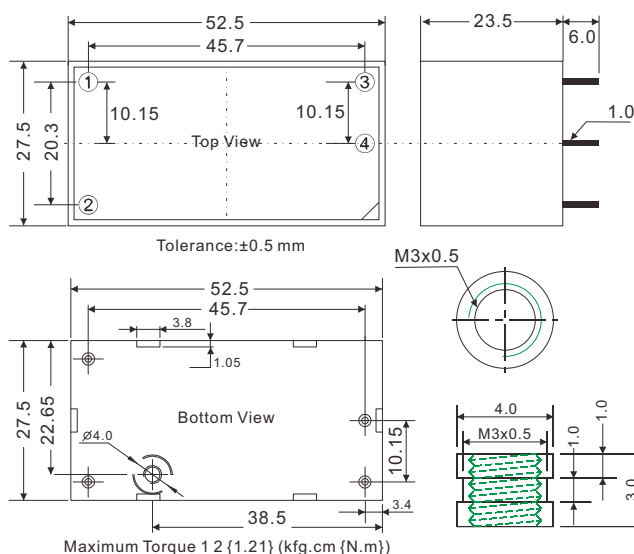
Load vs. Input Voltage

MZC20 Series

Ta=25°C



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT



More Details

MTC30 SERIES

30W AC-DC Medical/ITE Power Module



E199779
E308218
UL / IEC / EN 60950-1
UL / IEC / EN 60601-1

Medical Power Module — MTC30

Unified Selection Guide

ITE + Medical

- No Load Power Consumption < 0.15W
- Low Ripple and Low Noise
- I/O Isolation: 4000VAC
- Certified Screw Terminal Option
- Operating Temperature:
-40°C~+80°C with derating
- Protection:OPP / OVP / SCP

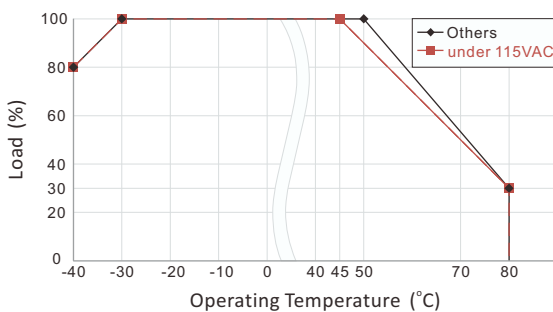
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MTC30 Single Output				Size: 2.52 x 1.8 x 0.93 inches		
MTC30-5S ☐	25	90~264	5.1	5000	84	100
MTC30-12S ☐	30	90~264	12	2500	89	150
MTC30-15S ☐	30	90~264	15	2000	86	150
MTC30-24S ☐	30	90~264	24	1250	86	240

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

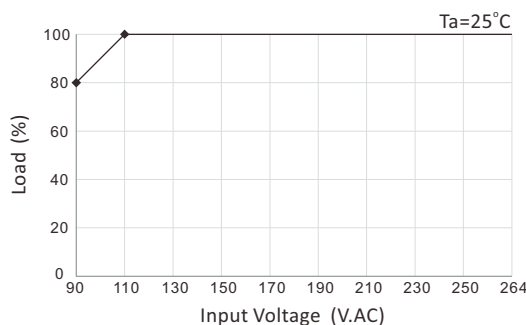
43

Derating

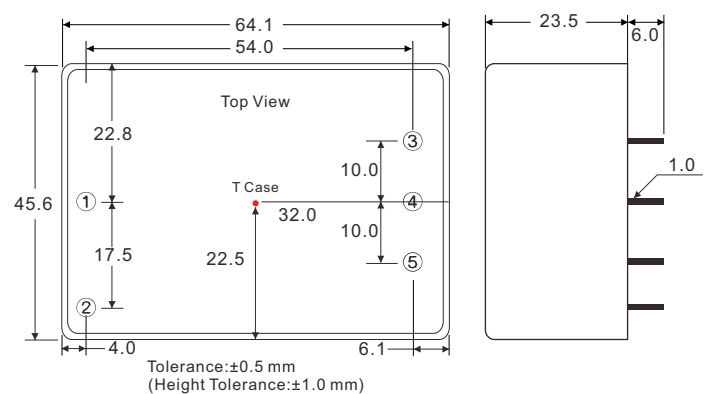
Output Load vs. Operating Temperature
MTC30 Series



Load vs. Input Voltage
MTC30 Series



Outline Dimensions



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	-DC OUT
4	NC
5	+DC OUT



More Details

MSC SERIES

40W AC-DC Medical Power Module

Medical Power Module — MSC



UL / IEC / EN 60601-1



Unified Selection Guide



Multiple Output



Low Ripple and Low Noise



I/O Isolation: 4000VAC



Compatible Screw Terminal Option



Operating Temperature:
-25°C~+70°C with derating



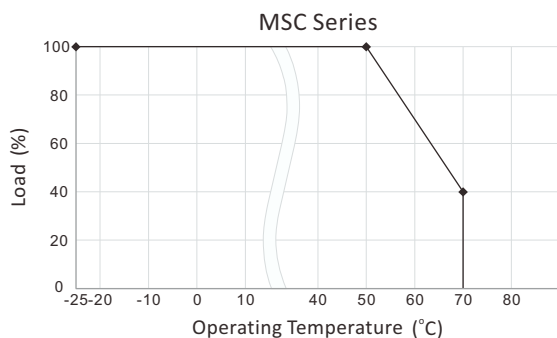
Protection: OCP / OVP / OTP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MSC Single Output				Size: 3.5 x 2.5 x 1.09 inches		
MSC-3.3S ☐	26.4	90~264	3.3	8000	74	50
MSC-5S ☐	40	90~264	5.1	8000	79	50
MSC-9S ☐	40	90~264	9	4444	82	90
MSC-12S ☐	40	90~264	12	3333	83	120
MSC-15S ☐	40	90~264	15	2667	83	150
MSC-24S ☐	40	90~264	24	1667	83	240
MSC Dual Output				Size: 3.5 x 2.5 x 1.09 inches		
MSC-5D ☐	40	90~264	±5	±4000	80	50
MSC-12D ☐	40	90~264	±12	±1666	83	120
MSC-15D ☐	40	90~264	±15	±1333	83	150
MSC-5S12S ☐	40	90~264	5 / 12	5000 / 1250	80	50/120
MSC-5S24S ☐	40	90~264	5 / 24	5000 / 625	80	50/240
MSC Triple Output				Size: 3.5 x 2.5 x 1.09 inches		
MSC-5S12D ☐	40	90~264	5 / ±12	5000 / ±600	79	50/120
MSC-5S15D ☐	40	90~264	5 / ±15	5000 / ±500	79	50/150

☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

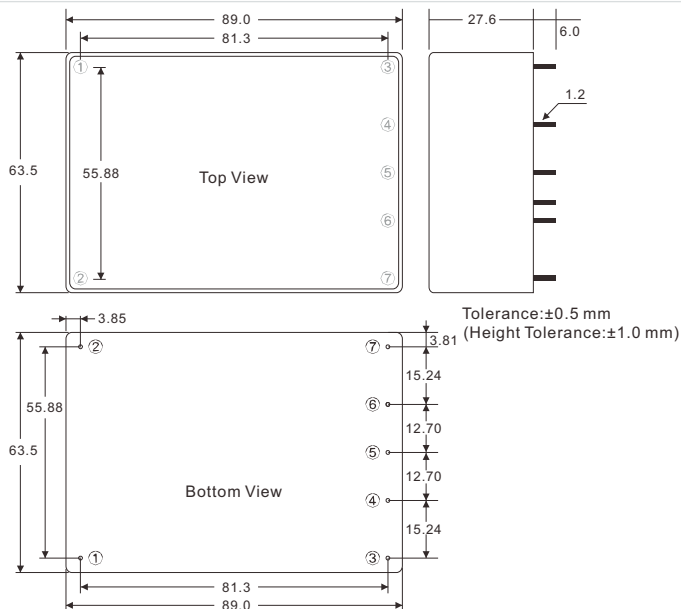
Derating

Output Load vs. Operating Temperature



PIN#	Single	Dual	5S/12S 5S/24S	Triple
1	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
2	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
3	+DC OUT	+DC OUT	+OUT1	+DC OUT
4	NO PIN	NO PIN	+5V OUT	+5V OUT
5	-DC OUT	COMMON	+5V RTN	COMMON
6	NO PIN	NO PIN	+OUT1 RTN	+5V RTN
7	NC	-DC OUT	NO PIN	-DC OUT

Outline Dimensions





More Details

MSC60 SERIES

60W AC-DC Medical/ITE Power Module



E199779
E308218
UL / IEC / EN 60950-1
UL / IEC / EN 60601-1

Medical Power Module — MSC60

Unified Selection Guide

ITE + Medical

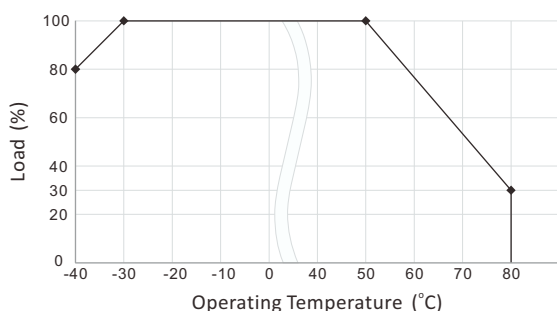
- No Load Power Consumption < 0.3W
- Low Ripple and Low Noise
- I/O Isolation: 4000VAC
- Certified Screw Terminal Option
- Operating Temperature:
-40°C~+80°C with derating
- Protection: OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MSC60 Single Output				Size: 3.5 x 2.5 x 1.09 inches		
MSC60-5S ☐	51	90~264	5.1	10000	86	100
MSC60-9S ☐	60	90~264	9	6666	87	100
MSC60-12S ☐	60	90~264	12	5000	88	120
MSC60-15S ☐	60	90~264	15	4000	86	150
MSC60-24S ☐	60	90~264	24	2500	87	240

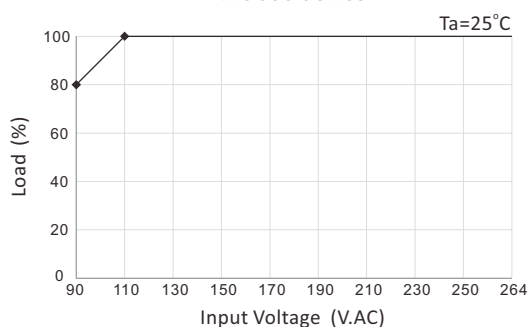
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

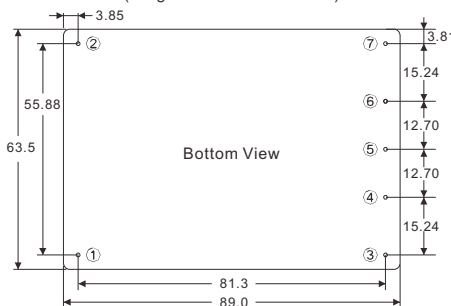
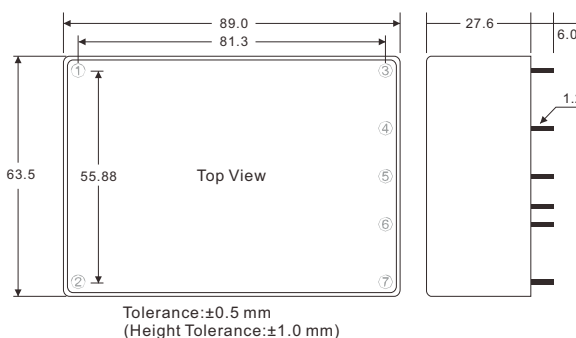
Output Load vs. Operating Temperature
MSC60 Series



Load vs. Input Voltage
MSC60 Series



Outline Dimensions



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	NO PIN
5	-DC OUT
6	NO PIN
7	NO PIN

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More Details

MQCS100 SERIES

100W AC-DC Medical Power Module



IEC / EN 60601-1 3.1st 2 x MOPP

Medical Power Module — MQCS100

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No Load Power Consumption < 0.3W



With P.F.C. Function >0.9



EMI for Both Class I (with PE) and Class II (without PE) Configuration



Suitable for BF Application with Appropriate System Consideration



I/O Isolation: 4000VAC



Certified Screw Terminal Option



Operating Temperature:
-30°C~+70°C with derating



Protection:OPP / OVP/ OTP/ SCP

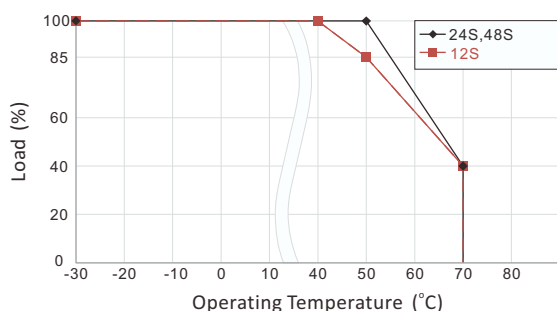
Unified Selection Guide

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MQCS100 Single Output Size: 3.3 x 2.32 x 1.38 inches						
MQCS100-12S ☐	100	90~264	12	8333	90	160
MQCS100-24S ☐	100	90~264	24	4167	90	240
MQCS100-48S ☐	100	90~264	48	2083	90	480

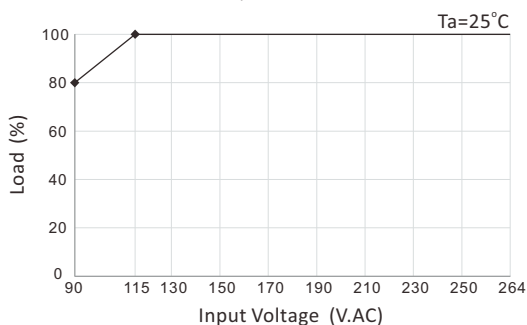
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

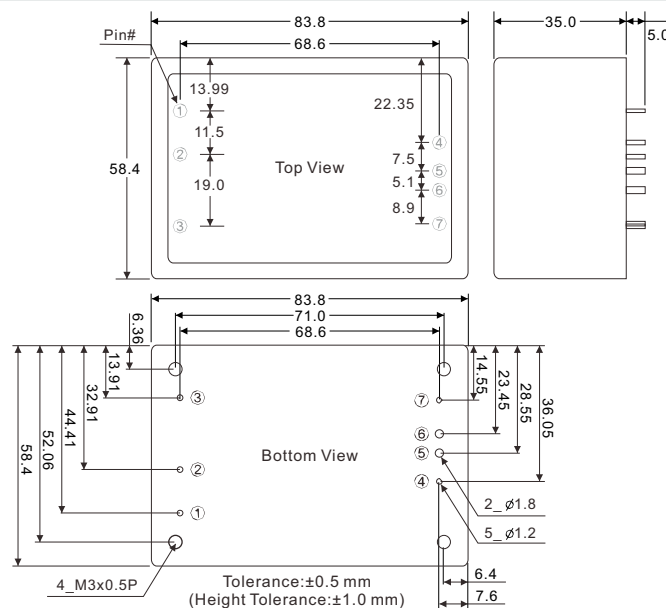
Output Load vs. Operating Temperature
MQCS100 Series



Load vs. Input Voltage
MQCS100 Series



Outline Dimensions



PIN#	Φ	Single	PIN#	Φ	Single
1	1.2	PE	5	1.8	+DC OUT
2	1.2	AC IN (N)	6	1.8	-DC OUT
3	1.2	AC IN (L)	7	1.2	TRIM
4	1.2	ON /OFF (Provide +5Vdc Controlled)			

ΦTolerances:±0.3mm



More Details

MQC150 SERIES

150W AC-DC Medical/ITE Power Module



E199779
E308218
UL / IEC / EN 62368-1
IEC / EN 60601-1 3.2nd 2 x MOPP

Medical Power Module — MQC150

Unified Selection Guide

ITE + Medical



No Load Power Consumption < 0.5W



With P.F.C. Function >0.9



EMI for Both Class I (with PE) and Class II (without PE) Configuration



Suitable for BF Application with Appropriate System Consideration



I/O Isolation: 4000VAC



Compatible Screw Terminal Option



Operating Temperature:
-30°C~+70°C with derating



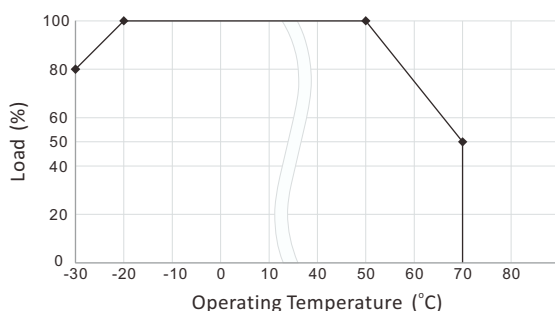
Protection:OPP / OVP/ OTP/ SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
MQC150 Single Output				Size: 4.3 x 2.3 x 1.38 inches		
MQC150-12S ☐	150	90~264	12	12500	93	120
MQC150-24S ☐	150	90~264	24	6250	93.5	240
MQC150-48S ☐	150	90~264	48	3125	93.5	480

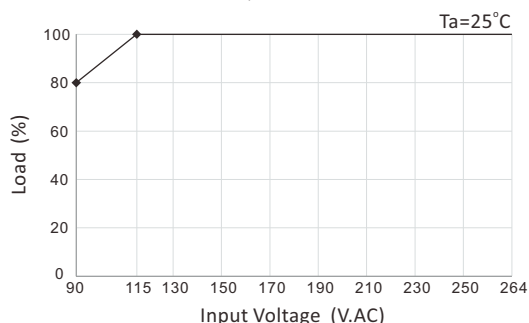
☐ :-A2=Screw Terminal, -A2-DN=Din Rail Kit

Derating

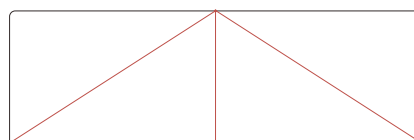
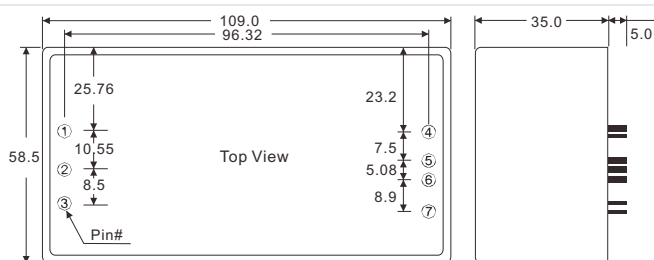
Output Load vs. Operating Temperature
MQC150 Series



Load vs. Input Voltage
MQC150 Series

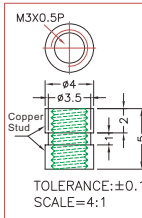
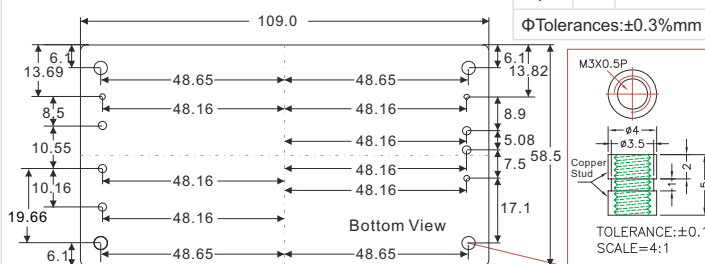


Outline Dimensions



Relative to the horizontal plane, measurements are based on the center.
Tolerance ±0.8mm

PIN#	Φ	Single
1	1.2	AC IN (N)
2	1.2	AC IN (L)
3	1.2	PE
4	1.2	ON/OFF
(Provide +5Vdc Controlled)		
5	1.8	+DC OUT
6	1.8	-DC OUT
7	1.2	TRIM
ΦTolerances:±0.3%mm		





More Details

AQF40 SERIES

40W AC-DC ITE Switching Power Supply

ITE Switching PSU — AQF40



UL / IEC / EN 62368-1



Unified Selection Guide



No Load Power Consumption < 0.1W



Efficiency up to 90%



I/O Isolation: 3000VAC



Operating Temperature:
-40°C~+80°C with derating



Protection:OPP / OVP / SCP

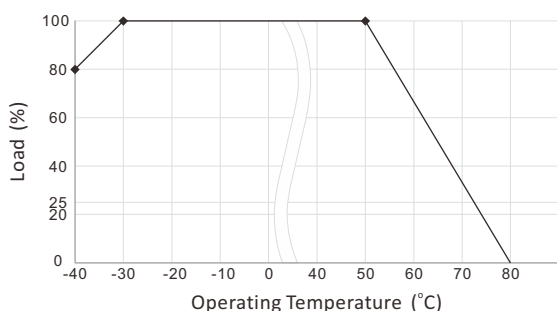
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AQF40 Single Output (Open Frame Type)				Size: 3.0 x 1.5 x 0.87 inches		
AQF40-12S	40	90~264	12	3333	90	120
AQF40-24S	40	90~264	24	1666	89	240

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Derating

Output Load vs. Operating Temperature

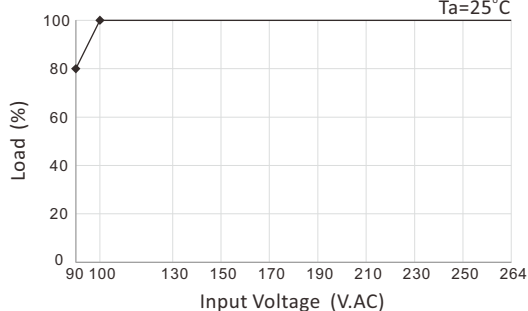
AQF40 Series



Load vs. Input Voltage

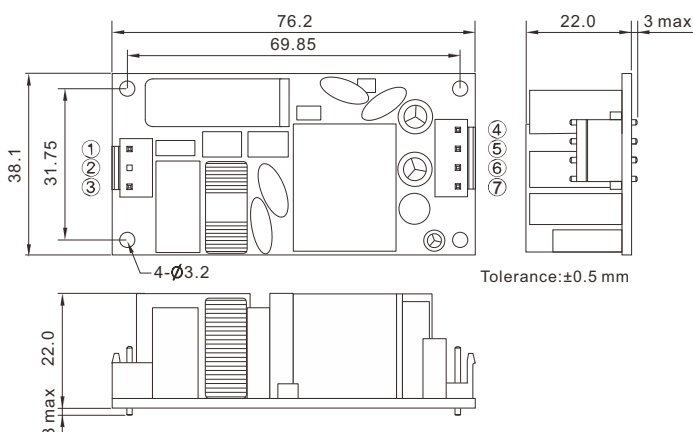
AQF40 Series

Ta=25°C



Outline Dimensions

For more details for Terminal Block, please refer to the Page 98~99



PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4	+DC OUT
5	-DC OUT



AQF65 SERIES

65W AC-DC ITE Switching Power Supply



CE  CB
E199779
UL / IEC / EN 62368-1

ITE Switching PSU — AQF65

Unified Selection Guide



No Load Power Consumption < 0.1W



Efficiency up to 90%



I/O Isolation: 3000VAC



Operating Temperature:
-40°C~+80°C with derating

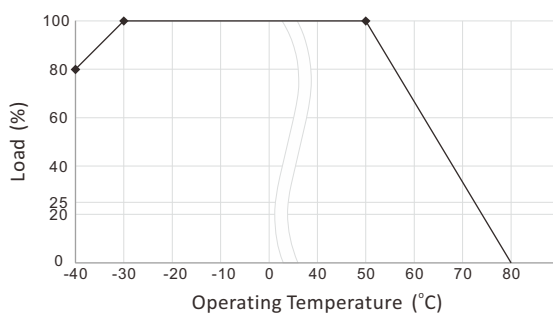


Protection:OPP / OVP / SCP

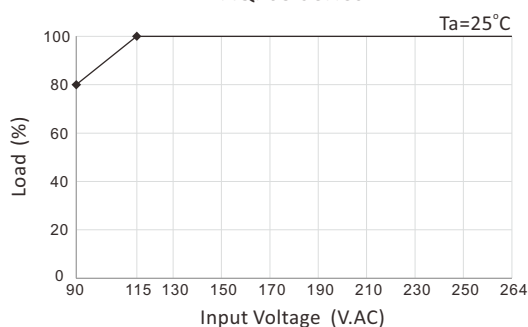
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AQF65 Single Output (Open Frame Type)				Size: 3.0 x 2.0 x 0.87 inches		
AQF65-12S	65	90~264	12	5410	89.5	120
AQF65-24S	65	90~264	24	2700	90	240

Derating

Output Load vs. Operating Temperature
AQF65 Series

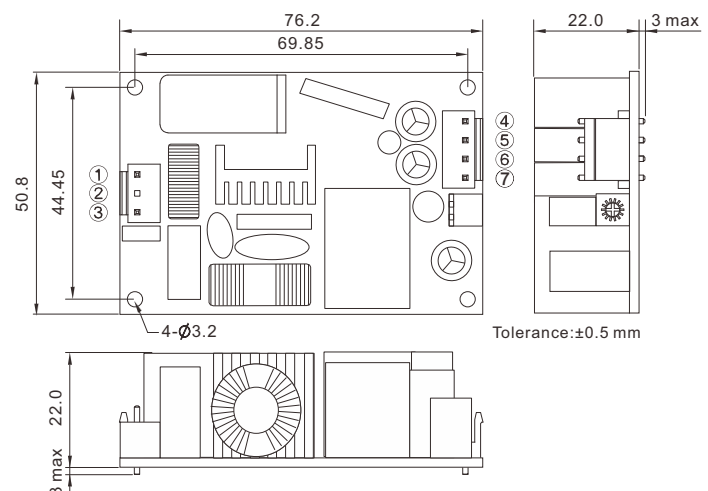


Load vs. Input Voltage
AQF65 Series



Outline Dimensions

For more details for Terminal Block, please refer to the Page 98~99



PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4	+DC OUT
5	-DC OUT



More Details

SZA60 SERIES

60W AC-DC ITE Switching Power Supply

CE **UL** **CB**
E199779
UL / IEC / EN 62368-1



Unified Selection Guide



No Load Power Consumption < 0.3W



I/O Isolation: 3000VAC



Din Rail Kit for Option (SZA60U only)



Operating Temperature:
-30°C~+70°C with derating



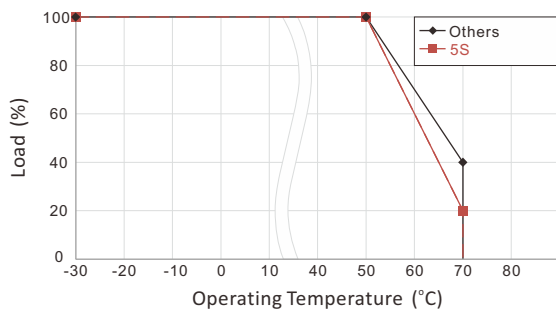
Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
SZA60O Single Output (Open Frame Type)				Size: 3.0 x 2.0 x 1.24 inches		
SZA60O-5S	50	90~264	5	10000	81	75
SZA60O-12S	60	90~264	12	5000	87	100
SZA60O-15S	60	90~264	15	4000	87	125
SZA60O-24S	60	90~264	24	2500	88	150
SZA60O-48S	60	90~264	48	1250	88	200
SZA60U Single Output (U Bracket Type)				Size: 3.15 x 2.35 x 1.5 inches		
SZA60E-5S ☐	50	90~264	5	10000	81	75
SZA60E-12S ☐	60	90~264	12	5000	87	100
SZA60E-15S ☐	60	90~264	15	4000	87	125
SZA60E-24S ☐	60	90~264	24	2500	88	150
SZA60E-48S ☐	60	90~264	48	1250	88	200

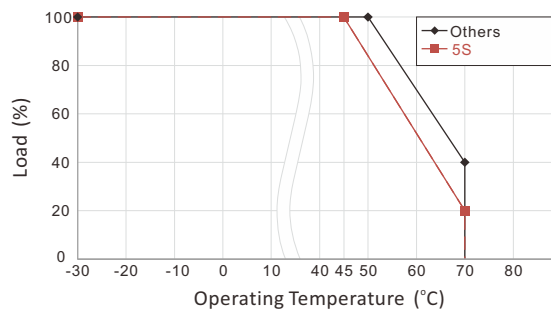
☐ :-DRK=Din Rail Kit

Derating

Output Load vs. Operating Temperature
SZA60O Series



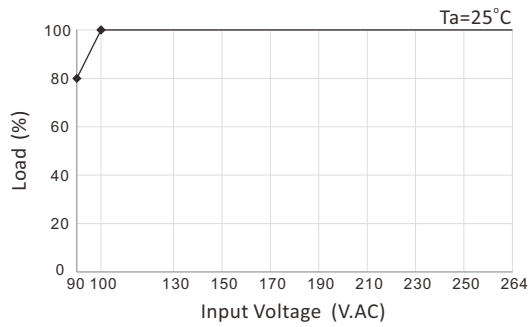
Output Load vs. Operating Temperature
SZA60U Series



Derating

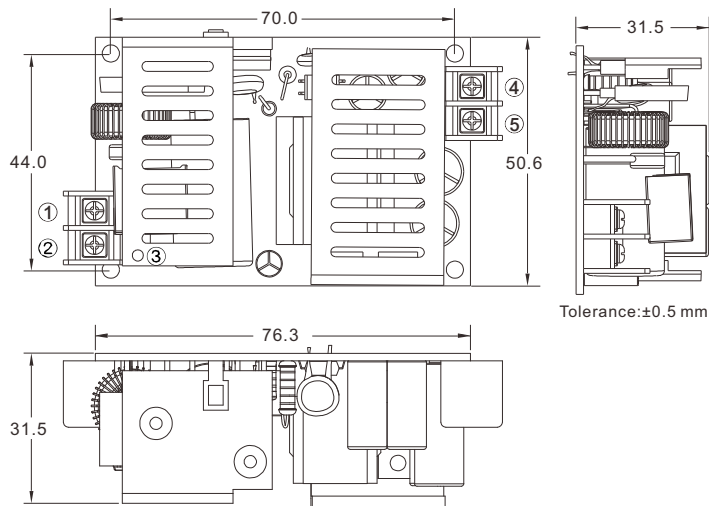
Load vs. Input Voltage

SZA60 Series



Outline Dimensions & Pin Connections

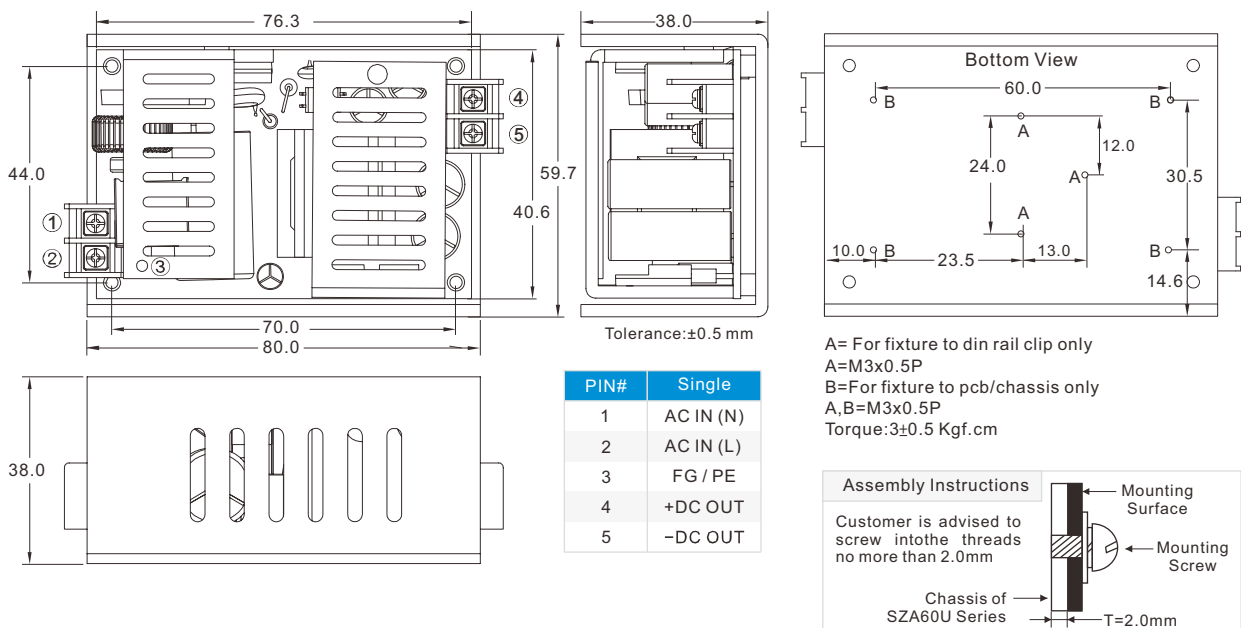
SZA600



PIN#	Single
1	AC IN (N)
2	AC IN (L)
3	FG / PE
4	+DC OUT
5	-DC OUT

For more details for Terminal Block, please refer to the Page 98-99

SZA60U



For more details for Terminal Block, please refer to the Page 98-99



More Details

BQF65 SERIES

65W AC-DC ITE Switching Power Supply

NEW



EN 62368-1

ITE Switching PSU — BQF65

Unified Selection Guide



No Load Power Consumption < 0.1W



Operating Altitude 4000m



LED Indicator for Power On



I/O Isolation: 4000VAC



Operating Temperature:
-20°C~+70°C with derating



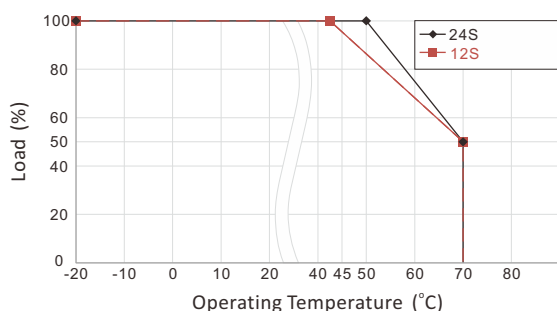
Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BQF65 Single Output (Open Frame Type)				Size: 3.0 x 2.0 x 0.945 inches		
BQF65-12S	65	80~264	12	5420	87	130
BQF65-24S	65	80~264	24	2710	89	130

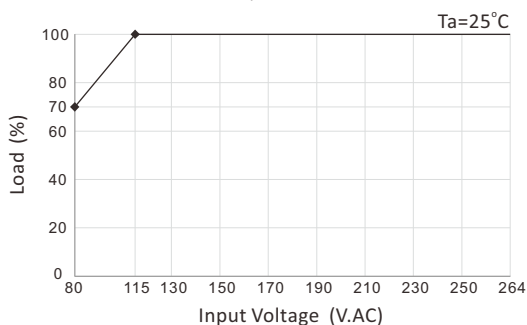
52

Derating

Output Load vs. Operating Temperature
BQF65 Series

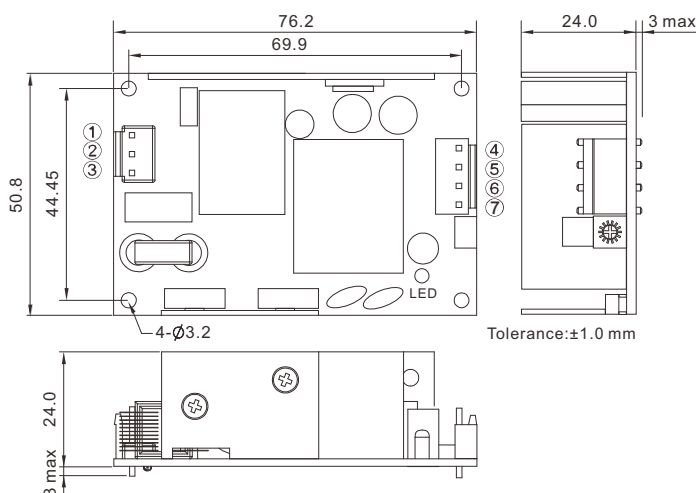


Load vs. Input Voltage
BQF65 Series



Outline Dimensions

For more details for Terminal Block, please refer to the Page 98~99



PIN#	Single
1	AC IN (L)
2	NO PIN
3	AC IN (N)
4~5	+DC OUT
6~7	-DC OUT



More Details

AQF80 SERIES

80W AC-DC ITE Switching Power Supply



CE **us** **CB**
E199779
UL / IEC / EN 62368-1

ITE Switching PSU — AQF80

Unified Selection Guide



No Load Power Consumption < 0.1W



Efficiency up to 90%



I/O Isolation: 3000VAC



Operating Temperature:
-40°C~+80°C with derating



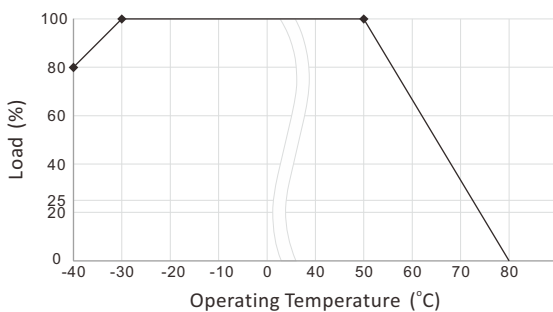
Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
AQF80 Single Output (Open Frame Type)				Size: 3.0 x 2.0 x 0.94 inches		
AQF80-12S	80	90~264	12	6666	89.5	120
AQF80-24S	80	90~264	24	3333	90	240

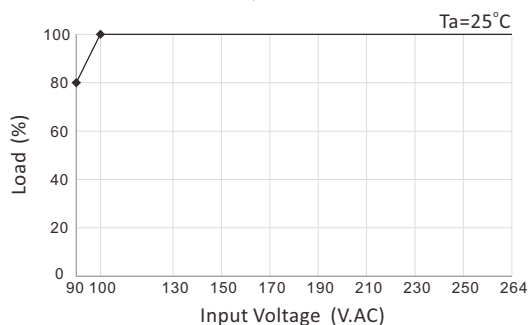
53

Derating

Output Load vs. Operating Temperature
AQF80 Series

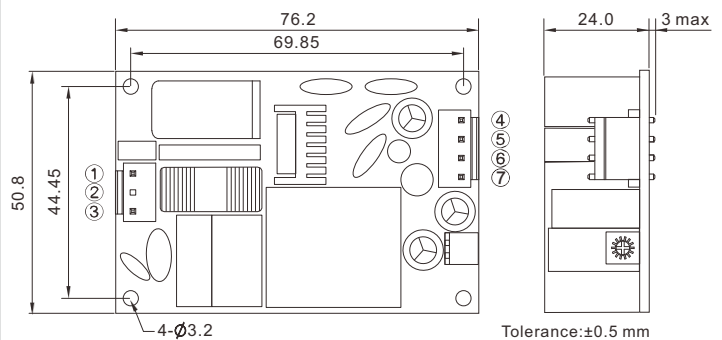


Load vs. Input Voltage
AQF80 Series



Outline Dimensions

For more details for Terminal Block, please refer to the Page 98~99



PIN#	Single
1	AC IN (L)
2	NO PIN
3	AC IN (N)
4~5	+DC OUT
6~7	-DC OUT



More Details

AQF120 SERIES

120W AC-DC ITE Switching Power Supply



UL / IEC / EN 62368-1
(5S / 15S N/A)

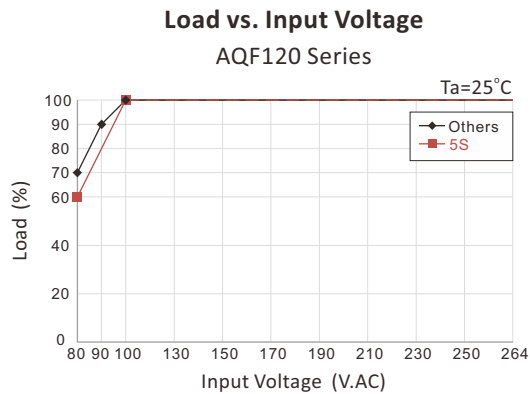
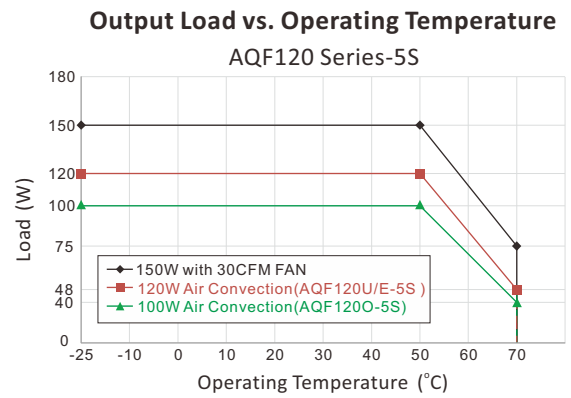
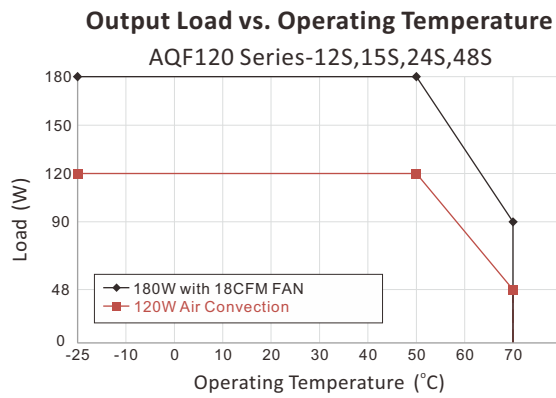


Unified Selection Guide

Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)		EFF (%)	Ripple & Noise (mV)
							
Input Voltage:90~264 V.AC  - Natural Convection  - 5S:30 CFM FAN / 12S to 48S:18 CFM FAN							
AQF120O Single Output			Size: 5.0 x 3.0 x 1.16 inches(*5S-Height:1.24 inches)				
AQF120O-5S	150	100	5	0~30	0~20	87	100
AQF120O-12S ☐	180	120	12	0~15	0~10	90	50
AQF120O-15S ☐	180	120	15	0~12	0~8	90	50
AQF120O-24S ☐	180	120	24	0~7.5	0~5	93	100
AQF120O-48S ☐	180	120	48	0~3.75	0~2.5	93	200
AQF120U Single Output(U Bracket Type)			Size: 5.0 x 3.24 x 1.5 inches				
AQF120U-5S	150	120	5	0~30	0~24	87	100
AQF120U-12S ☐	180	120	12	0~15	0~10	90	50
AQF120U-15S ☐	180	120	15	0~12	0~8	90	50
AQF120U-24S ☐	180	120	24	0~7.5	0~5	93	100
AQF120U-48S ☐	180	120	48	0~3.75	0~2.5	93	200
AQF120E Single Output(Enclosed Type)			Size: 5.0 x 3.24 x 1.5 inches				
AQF120E-5S	150	120	5	0~30	0~24	87	100
AQF120E-12S ☐	180	120	12	0~15	0~10	90	50
AQF120E-15S ☐	180	120	15	0~12	0~8	90	50
AQF120E-24S ☐	180	120	24	0~7.5	0~5	93	100
AQF120E-48S ☐	180	120	48	0~3.75	0~2.5	93	200

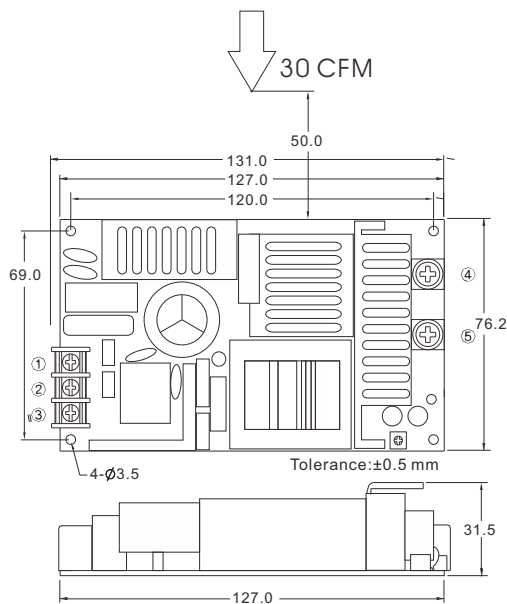
☐ :-A=A Type, -B=B Type Terminal Block(5S N/A), -DRK=Din Rail Kit(AQF120O N/A)

Derating



Outline Dimensions & Pin Connections

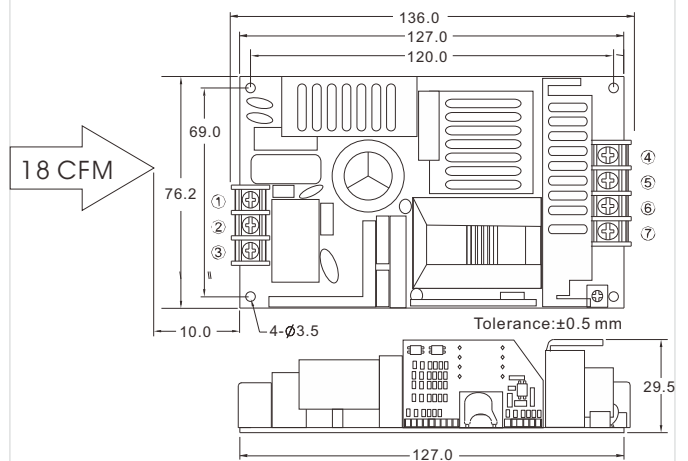
AQF1200-5S (Standard Type)



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99

AQF1200-12S to 48S (Standard Type)



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4~5	+DC OUT
6~7	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99



More Details

AQF120 SERIES

120W AC-DC ITE Switching Power Supply

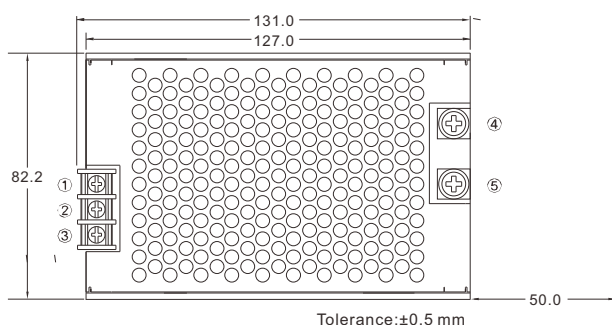


UL / IEC / EN 62368-1
(5S / 15S N/A)

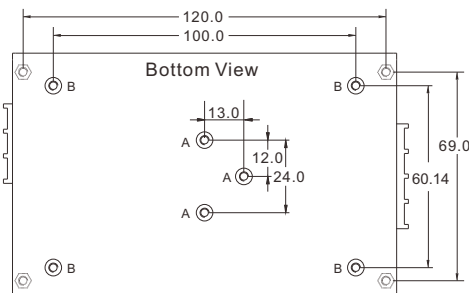
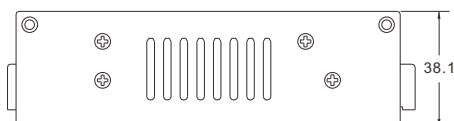


Outline Dimensions & Pin Connections

AQF120U-5S (Standard Type)



30 CFM

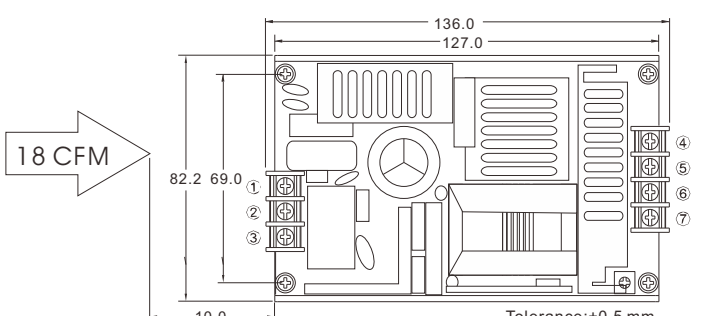


A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque: 3±0.5 Kgf.cm

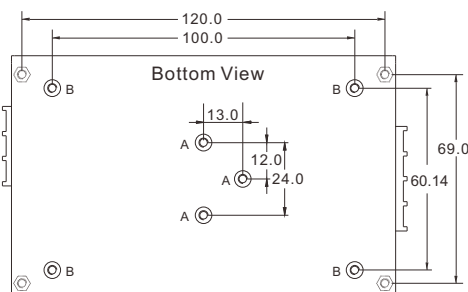
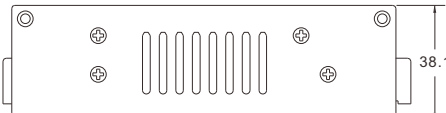
PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99

AQF120U-12S to 48S (Standard Type)



18 CFM



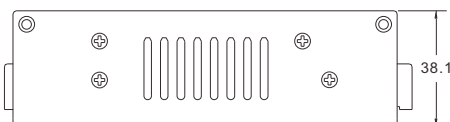
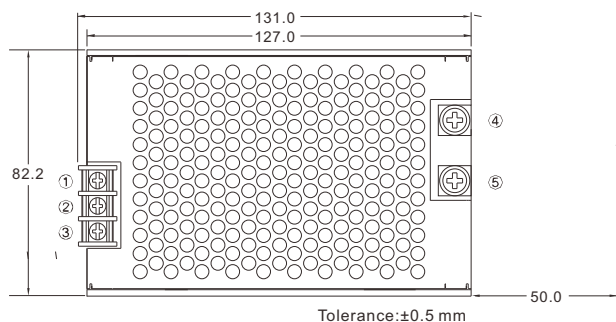
A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque: 3±0.5 Kgf.cm

PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4~5	+DC OUT
6~7	-DC OUT

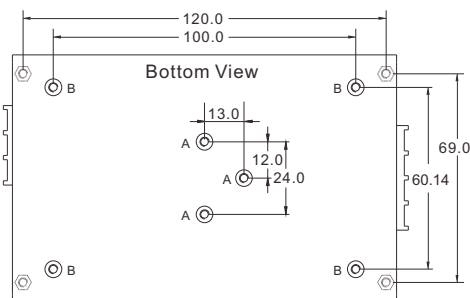
For more details for Terminal Block, please refer to the Page 98~99

Outline Dimensions & Pin Connections

AQF120E-5S (Standard Type)



30 CFM

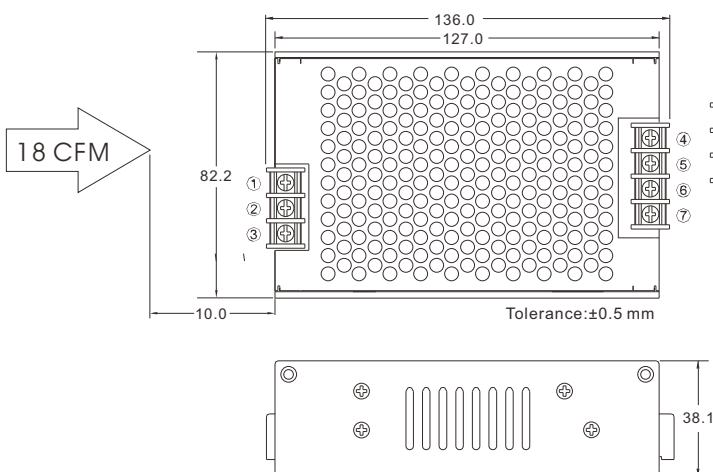


A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm

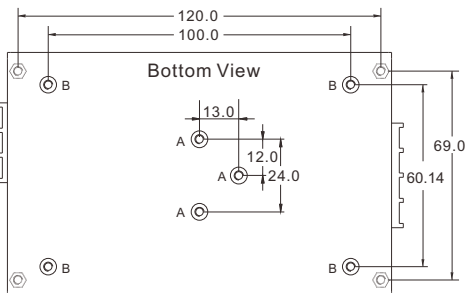
PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99

AQF120E-12S to 48S (Standard Type)



18 CFM

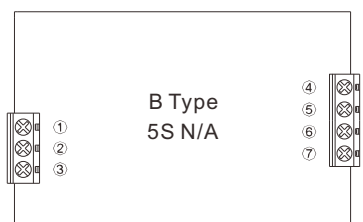
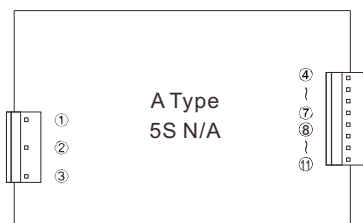


A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm

PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4~5	+DC OUT
6~7	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99

More Information

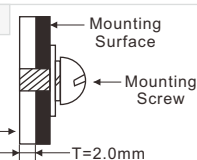


PIN#	PIN#	Single
A Type	B Type	
1	1	AC IN (L)
2	2	AC IN (N)
3	3	FG
4~7	4~5	+DC OUT
8~11	6~7	-DC OUT

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of AQF120U / AQF120E Series



Standard Type (5S)



A Type (5S N/A)



Standard Type (5S N/A)



B Type (5S N/A)



★ Note. Please refer to the types of terminal block (Page 98~99); the pictures shown are for illustration purpose only, actual product may vary.

For more details for Terminal Block, please refer to the Page 98~99



More Details

BQF120 SERIES

120W AC-DC ITE Switching Power Supply

NEW

CE **UL** **CB**
E199779
UL / IEC / EN 62368-1



Unified Selection Guide

No Load Power Consumption < 0.5W

Efficiency up to 93%

Extremely Low Leakage Current
< 0.1mA

EMI for Both Class I (with PE) and
Class II (without PE) Configuration

I/O Isolation: 4000VAC

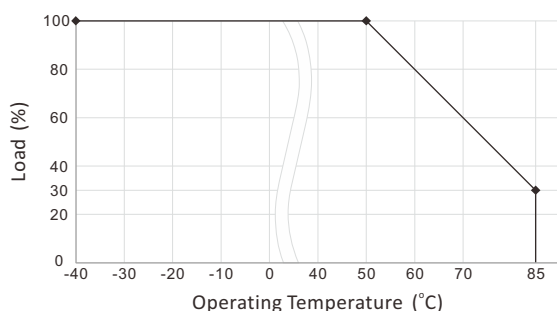
Wide Operating Temperature:
-40°C~+85°C with derating

Protection:OPP / OVP / SCP

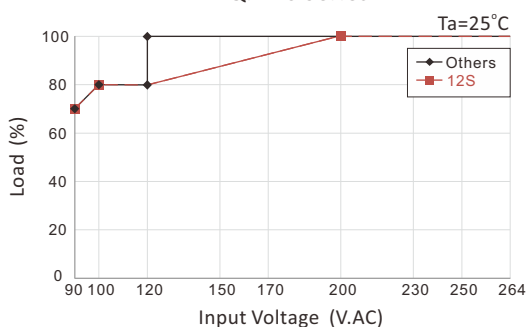
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BQF120 Single Output (Open Frame Type)				Size: 3.0 x 2.0 x 1.3 inches		
BQF120-12S	114	90~264	12	9500	92	100
BQF120-24S	120	90~264	24	5000	93	150
BQF120-48S	120	90~264	48	2500	93	200

Derating

Output Load vs. Operating Temperature
BQF120 Series

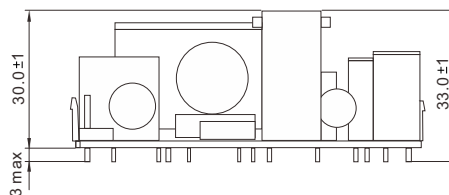
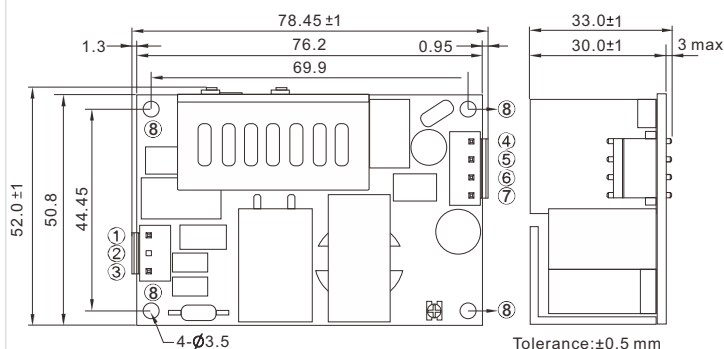


Load vs. Input Voltage
BQF120 Series



Outline Dimensions

For more details for Terminal Block, please refer to the Page 98~99



PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4~5	+DC OUT
6~7	-DC OUT



More Details

AQF240E-12S24S

240W AC-DC ITE Switching Power Supply



CE **us** **CB**
E199779
UL / IEC / EN 62368-1

ITE Switching PSU — AQF240E-12S24S

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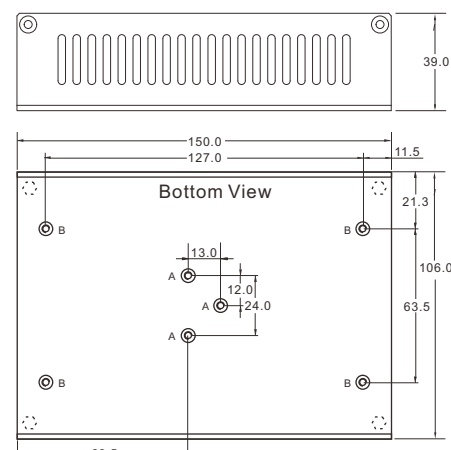
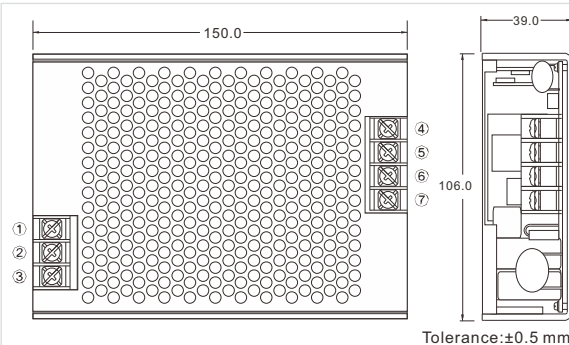
Unified Selection Guide

- Dual Output
- Efficiency up to 90%
- With P.F.C. Function >0.9
- I/O Isolation: 4000VAC
- Din Rail Kit for Option
- Operating Temperature: -10°C~+70°C with derating
- Protection:OPP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF240E Dual Output (Enclosed Type)				Size: 6.0 x 4.18 x 1.54 inches		
AQF240E-12S24S ☐	240	90~264	12 / 24	10 / 5	90	120

☐ :-DRK=Din Rail Kit

Outline Dimensions

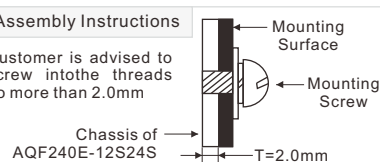


PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+12V OUT
5	+24V OUT
6	COMMON
7	COMMON

A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm

Assembly Instructions

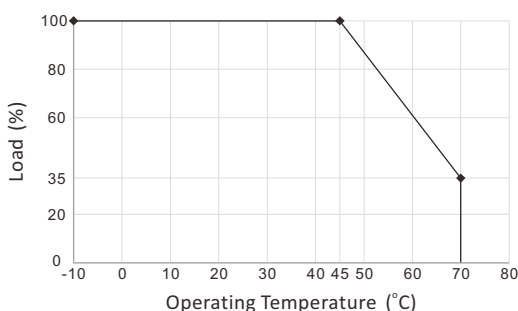
Customer is advised to screw into the threads no more than 2.0mm



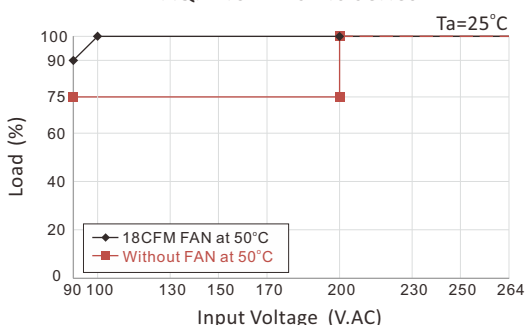
For more details for Terminal Block, Please refer to the Page 98-99

Derating

Output Load vs. Operating Temperature
AQF240E-12S24S Series



Load vs. Input Voltage
AQF240E-12S24S Series





More Details

ARF130 SERIES

130W AC-DC ITE Switching Power Supply



UL / IEC / EN 62368-1



ITE Switching PSU — ARF130

60



No Load Power Consumption < 0.3W



Operating Altitude 5000m (OVC II)



Active PFC Function



Efficiency up to 91%



Semi-Potted Design



EMI for Both Class I (with PE) and Class II (without PE) Configuration



I/O Isolation: 4000VAC



Din Rail Kit for Option (ARF130U N/A)



Operating Temperature:
-30°C~+70°C with derating



Protection:OPP / OVP / OTP / SCP

Unified Selection Guide

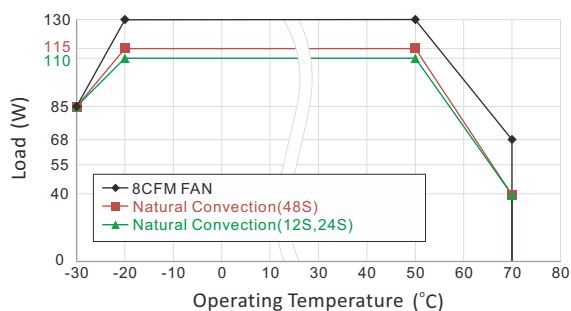
Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
		 115 / 230 Vin			 115 Vin 230 Vin			
	Input Voltage:90~264 V.AC							
ARF130O Single Output (Open Frame Type)				Size: 3.59 x 2.15 x 1.36 inches				
ARF130O-12S	130	110 / 119	12	10.833	9.166	9.917	90	160
ARF130O-24S	130	110 / 119	24	5.417	4.583	4.958	90	240
ARF130O-48S	130	115 / 125	48	2.708	2.395	2.604	91	340
Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
		 100 / 115,230 Vin			 100 Vin 115,230 Vin			
	Input Voltage:90~264 V.AC							
ARF130U Single Output (U Bracket Type)				Size: 3.15 x 2.35 x 1.5 inches				
ARF130U-12S 	130	110 / 119	12	10.833	9.167	9.917	90	160
ARF130U-24S 	130	115 / 120	24	5.417	4.792	5	90	240
ARF130U-48S 	130	120 / 125	48	2.708	2.5	2.604	91	340
ARF130E Single Output (Enclosed Type)				Size: 3.15 x 2.35 x 1.7 inches				
ARF130E-12S 	130	105 / 119	12	10.833	8.75	9.917	90	160
ARF130E-24S 	130	110 / 120	24	5.417	4.583	5	90	240
ARF130E-48S 	130	115 / 125	48	2.708	2.396	2.604	91	340

☐ :-DRK=Din Rail Kit

Derating

Output Load vs. Operating Temperature

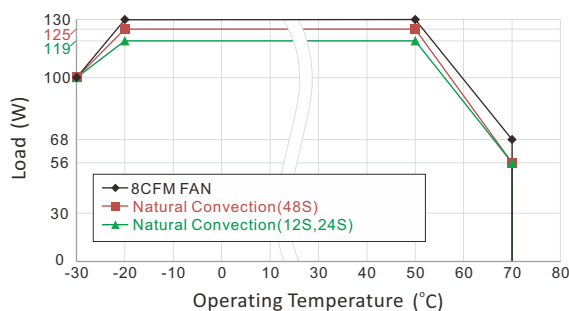
ARF130O(Vin at 115-229 VAC) Series



If input voltage is lower than 115VAC, please refer to the output derating V.S. input voltage curve for details

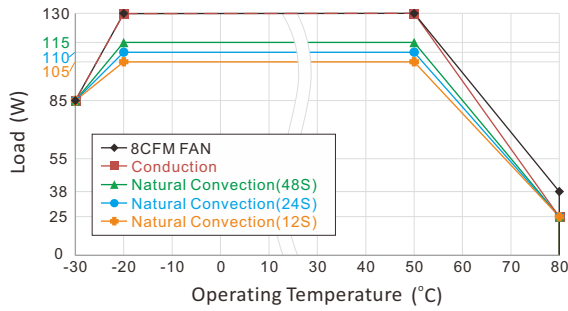
Output Load vs. Operating Temperature

ARF130O(Vin at 230-264 VAC) Series



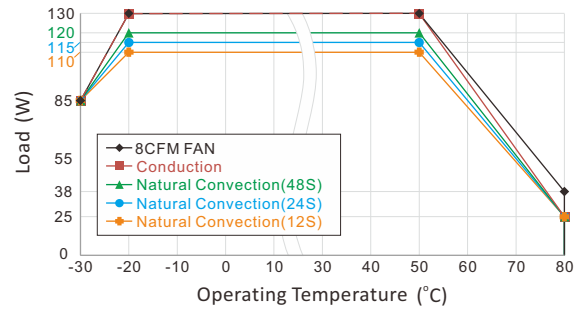
Derating

Output Load vs. Operating Temperature
ARF130E(Vin at 100-114 VAC) Series



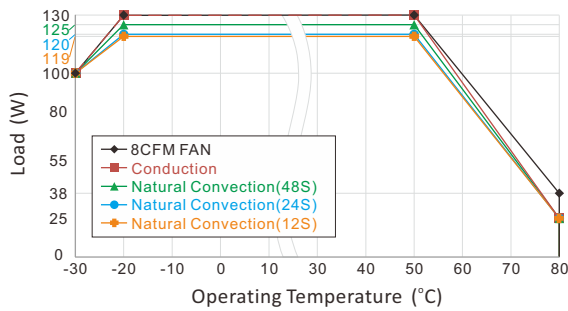
If input voltage is lower than 100VAC, please refer to the output derating V.S. input voltage curve for details

Output Load vs. Operating Temperature
ARF130U(Vin at 100-114 VAC) Series

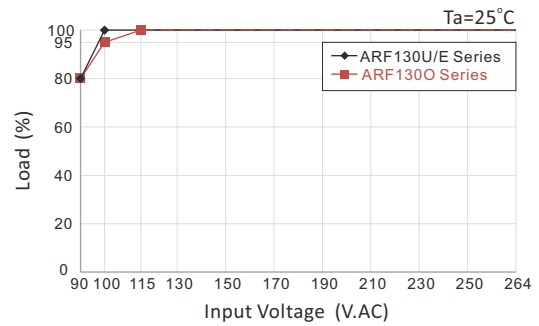


If input voltage is lower than 100VAC, please refer to the output derating V.S. input voltage curve for details

Output Load vs. Operating Temperature
ARF130U/E(Vin at 115-264 VAC) Series

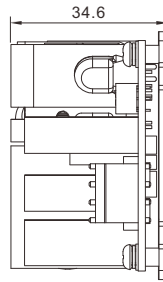
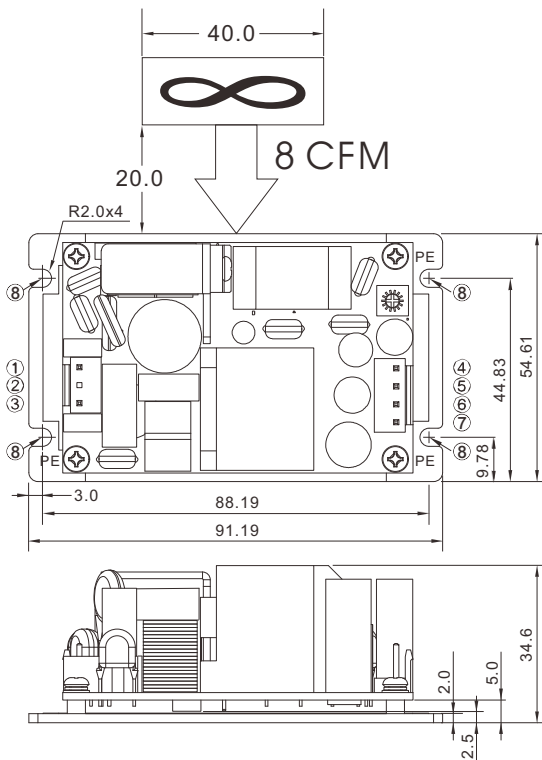


Load vs. Input Voltage
ARF130 Series



Outline Dimensions & Pin Connections

ARF1300



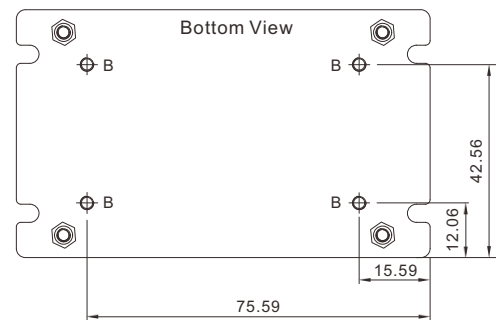
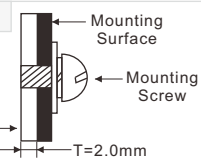
Tolerance: ± 0.5 mm

PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4~5	+DC OUT
6~7	-DC OUT
8	PE

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of ARF1300 Series



B=For fixture to pcb/chassis only
B=M3x0.5P
Torque: 3 ± 0.5 Kgf.cm

For more details for Terminal Block, please refer to the Page 98~99

Next Page



More Details

ARF130 SERIES

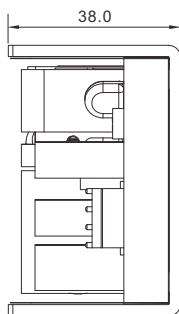
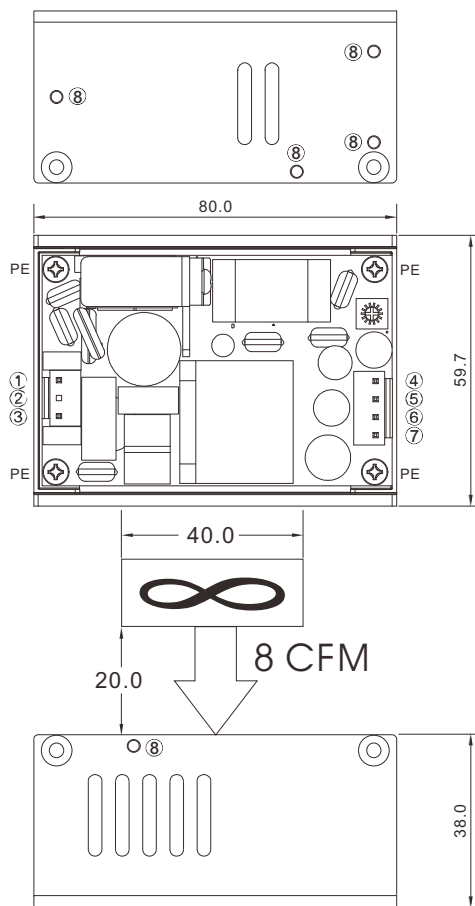
130W AC-DC ITE Switching Power Supply



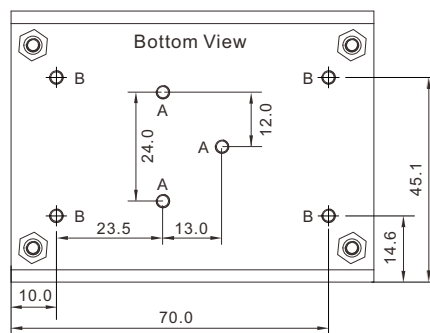
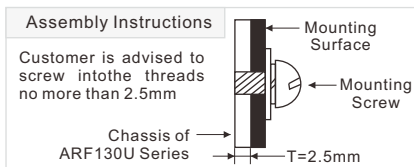
UL / IEC / EN 62368-1



Outline Dimensions & Pin Connections



PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4~5	+DC OUT
6~7	-DC OUT
8, B	PE

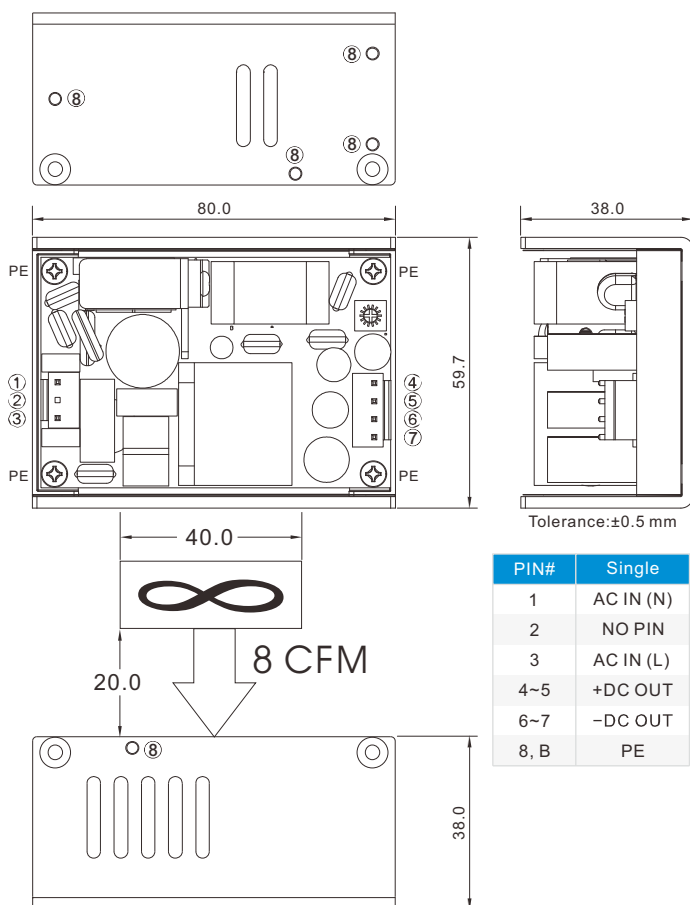


A= For fixture to chassis only
B=For fixture to pcb/chassis only
A,B,8=M3x0.5P
Torque:3±0.5 Kgf.cm

For more details for Terminal Block, please refer to the Page 98~99

Outline Dimensions & Pin Connections

ARF130E



For more details for Terminal Block, please refer to the Page 98~99

Assembly Instructions

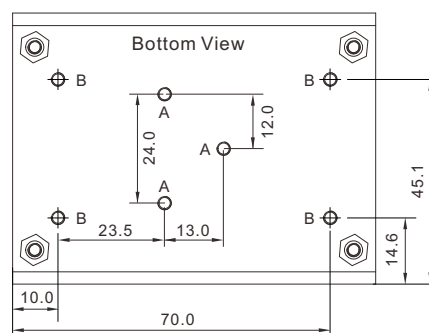
Customer is advised to screw into the threads no more than 2.5mm

Chassis of ARF130E Series

Mounting Surface

Mounting Screw

T=2.5mm



A= For fixture to chassis only
B=For fixture to pcb/chassis only
A,B,8=M3x0.5P
Torque:3±0.5 Kgf.cm



More Details

ARF220 SERIES

220W AC-DC ITE Switching Power Supply

NEW

Preliminary

*Preliminary specifications, design and features are subject to change as development continues. All specifications are subject to change without prior notice.



UL / IEC / EN 62368-1
IEC / EN 60601-1 3.2nd (meet)



Unified Selection Guide

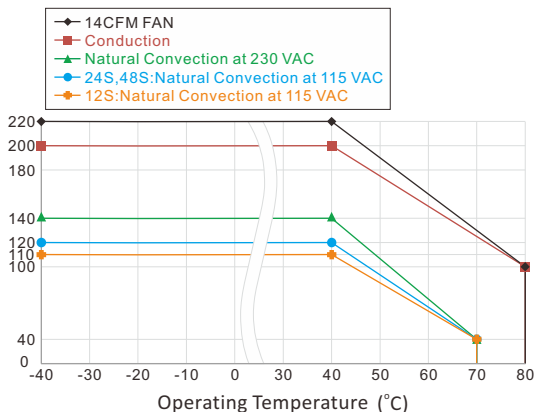
- No Load Power Consumption < 0.3W
- Over-Voltage Category III
- 150% Peak Load (3 Sec)
- Active PFC Function
- Efficiency up to 94%
- EMI for Both Class I (with PE) and Class II (without PE) Configuration
- I/O Isolation: 4300VAC
- A Type Terminal Block for Option
- Operating Temperature: -40°C~+80°C with derating

Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
									
Input Voltage:90~264 V.AC  - Natural Convection  - 14 CFM FAN  - Conduction Cooled									
ARF220O Single Output (Open Frame Type)					Size: 3.0 x 2.0 x 1.26 inches				
ARF220O-12S ☐	220	200	140	12	18.34	16.67	11.67	93	150
ARF220O-24S ☐	220	200	140	24	9.17	8.34	5.84	93.5	200
ARF220O-48S ☐	220	200	140	48	4.59	4.17	2.92	94	240
Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
									
Input Voltage:90~264 V.AC  - Natural Convection  - 14 CFM FAN  - Conduction Cooled									
ARF220E Single Output (Enclosed Type)					Size: 3.15 x 2.37 x 1.38 inches				
ARF220E-12S ☐	220	200	140	12	18.34	16.67	11.67	93	150
ARF220E-24S ☐	220	200	140	24	9.17	8.34	5.84	93.5	200
ARF220E-48S ☐	220	200	140	48	4.59	4.17	2.92	94	240

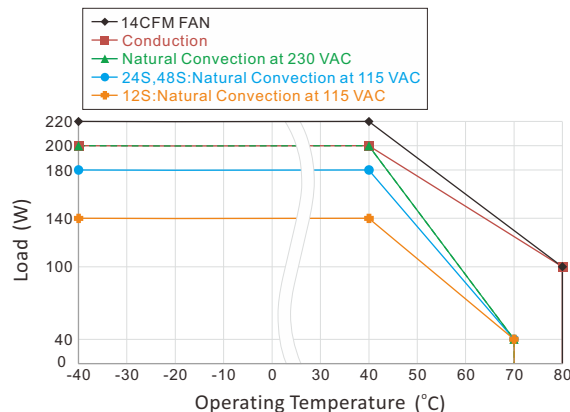
☐ :-A=A Type Terminal Block

Derating

Output Load vs. Operating Temperature
ARF220O Series



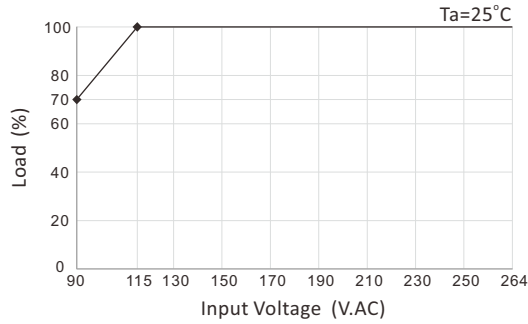
Output Load vs. Operating Temperature
ARF220E Series



Derating

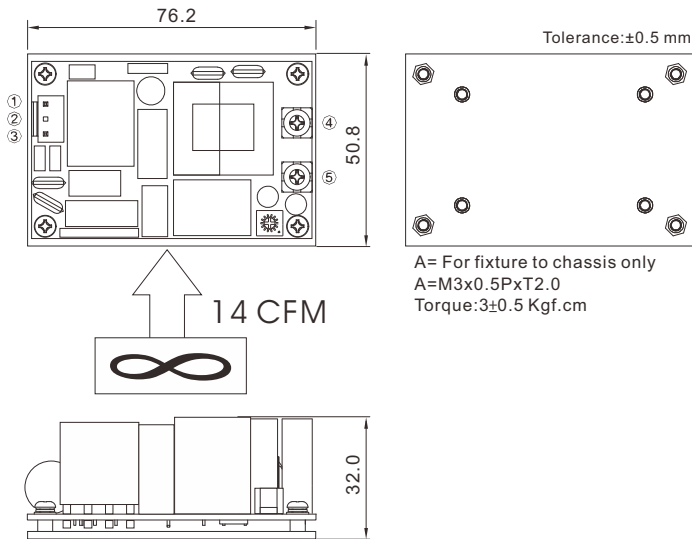
Load vs. Input Voltage

ARF220 Series

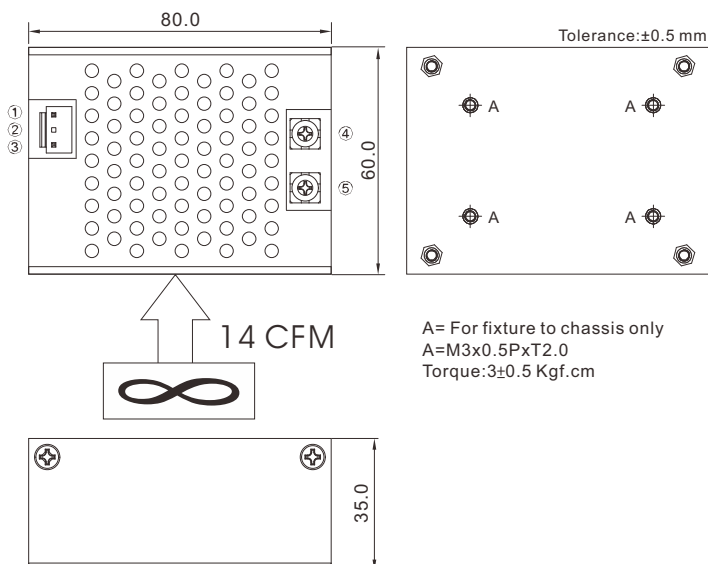


Outline Dimensions & Pin Connections

ARF2200 (Standard Type)



ARF220E (Standard Type)



More Information

Standard Type



A Type



★ Note. Please refer to the types of terminal block (Page 98~99); the pictures shown are for illustration purpose only, actual product may vary.

A Type

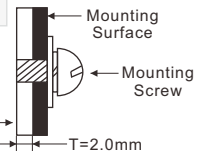


PIN#	PIN#	Single
Standard	A Type	
1	1	AC IN (N)
2	2	NO PIN
3	3	AC IN (L)
4	4~6	+DC OUT
5	7~9	-DC OUT
A	A	PE

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of ARF2200 / ARF220E Series



For more details for Terminal Block, Please refer to the Page 98~99



More Details

AQF240 SERIES

240W AC-DC ITE Switching Power Supply

ITE Switching PSU — AQF240



UL / IEC / EN 62368-1
(5S / 12S / 28S / 36S N/A)



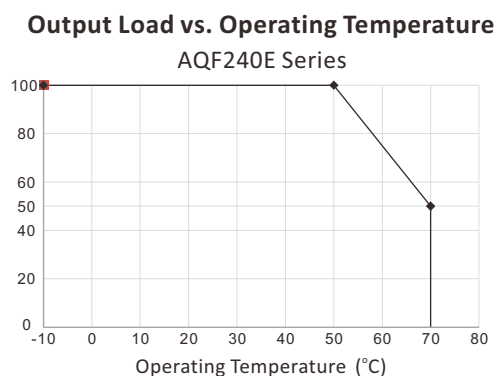
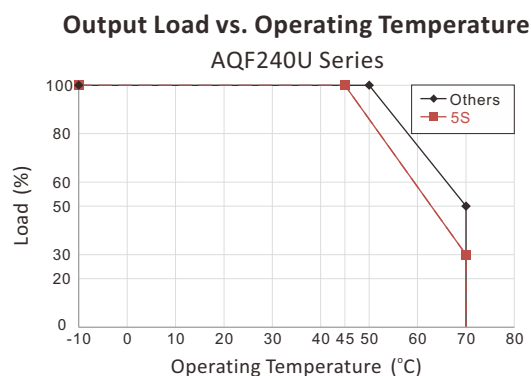
Unified Selection Guide

- Efficiency up to 93%
- With P.F.C. Function >0.95
- Extremely Low Leakage Current < 0.5mA
- I/O Isolation: 4000VAC
- A Type Terminal Block / DIN Rail Kit Options
- Operating Temperature: -10°C~+70°C with derating
- Protection:OPP / OVP / OTP / SCP

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF240U Single Output Size: 6.0 x 4.18 x 1.38 inches(*5S-Height:1.46 inches)						
AQF240U-5S ☐	180	90~264	5	36	87	150
AQF240U-12S ☐	240	90~264	12	20	90	120
AQF240U-15S ☐	240	90~264	15	16	90	200
AQF240U-24S ☐	240	90~264	24	10	92	200
AQF240U-28S ☐	240	90~264	28	8.57	92	200
AQF240U-32S ☐	240	90~264	32	7.5	92	200
AQF240U-36S ☐	240	90~264	36	6.66	92	200
AQF240U-48S ☐	240	90~264	48	5	93	200
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF240E Single Output (Enclosed Type) Size: 6.0 x 4.18 x 1.38 inches						
AQF240E-12S ☐	200	90~264	12	16.66	90	120
AQF240E-15S ☐	220	90~264	15	14.66	90	120
AQF240E-24S ☐	240	90~264	24	10	92	120
AQF240E-28S ☐	240	90~264	28	8.57	92	200
AQF240E-32S ☐	240	90~264	32	7.5	92	200
AQF240E-36S ☐	240	90~264	36	6.66	92	200
AQF240E-48S ☐	240	90~264	48	5	93	200

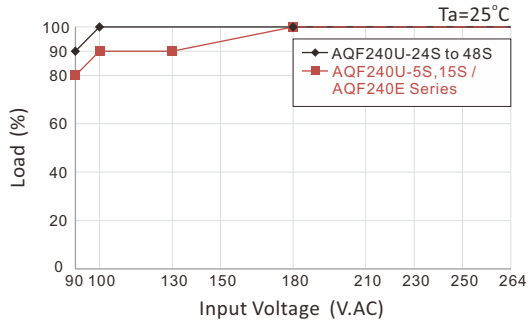
☐ : -A=A Type Terminal Block(only for AQF240U-12S to 48S, -DRK=Din Rail Kit

Derating

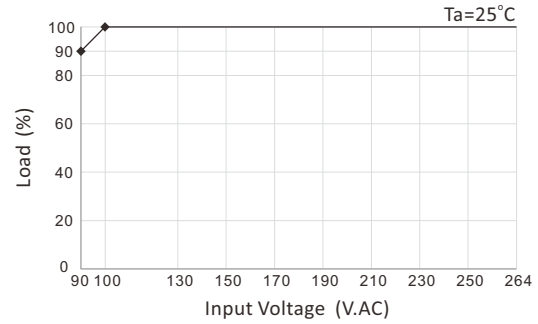


Derating

Load vs. Input Voltage
without FAN at 50°C

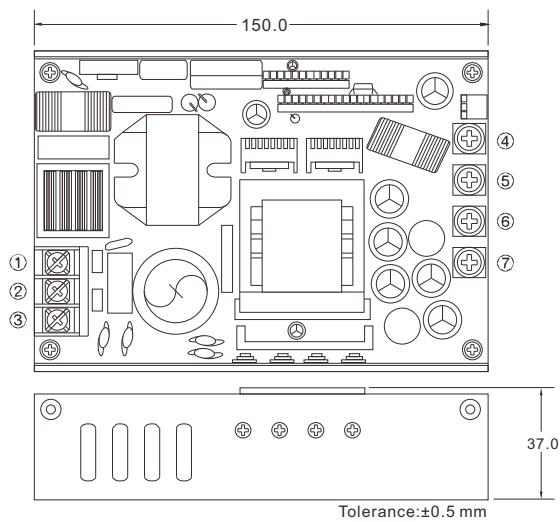


Load vs. Input Voltage
with 18 CFM FAN at 50°C

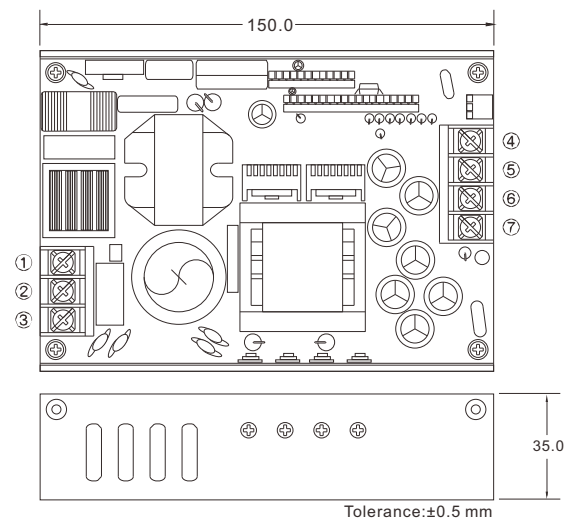


Outline Dimensions & Pin Connections

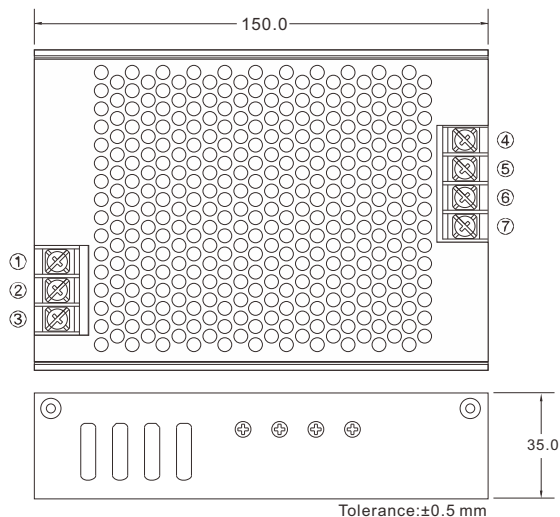
A QF240U-5S (Standard Type)



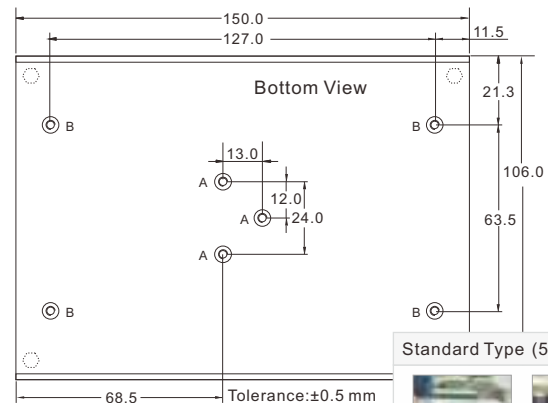
A QF240U-12S to 48S (Standard Type)



A QF240E



More Information



A= For fixture to chassis only
 A=M3x0.5P
 B=For fixture to pcb/chassis only
 A,B=M3x0.5P
 Torque:3±0.5 Kgf.cm

Standard Type (5S)



Standard Type (5S N/A)



A Type
(Only for A QF240U-12S to 48S)



A Type
Only for
A QF240U-12S to 48S

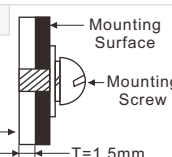


PIN#	PIN#	Single
Standard	A Type	
1	1	AC IN (L)
2	2	AC IN (N)
3	3	FG
4~5	4~7	+DC OUT
6~7	8~11	-DC OUT

Assembly Instructions

Customer is advised to screw into the threads no more than 1.5mm

Chassis of A QF240U / A QF240E Series



* Note. Please refer to the types of terminal block (Page 98~99); the pictures shown are for illustration purpose only, actual product may vary.

* Note.



More Details

ARF240 SERIES

240W AC-DC ITE Switching Power Supply

ITE Switching PSU — AQF240

68

CE CB
E199779
UL / IEC / EN 62368-1



Unified Selection Guide

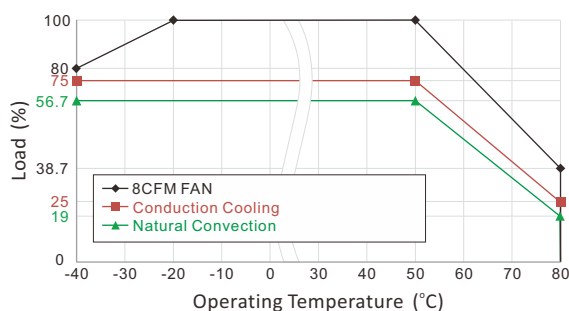
- No Load Power Consumption < 0.5W
- Over-Voltage Category III
- Operating Altitude 5000m (OVC III:4000m)
- Built-in 12V / 0.5A Fan Supply (ARF240O only)
- Active PFC Function
- Efficiency up to 94%
- Semi-Potted Design
- EMI for Both Class I (with PE) and Class II (without PE) Configuration
- I/O Isolation: 4250VAC
- A Type Terminal Block / DIN Rail Kit Options

Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
									
Input Voltage:90~264 V.AC  - Natural Convection  - 8 CFM FAN  - Conduction Cooled									
ARF240O Single Output (Open Frame Type)					Size: 4.02 x 2.05 x 1.09 inches				
ARF240O-12S ☐	240	180	160	12	20	15	13.33	92.5	120
ARF240O-24S ☐	240	180	160	24	10	7.5	6.66	93	240
ARF240O-48S ☐	240	180	160	48	5	3.75	3.33	94	480
Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
			 100 / 230 Vin				 100Vin 230 Vin		
Input Voltage:90~264 V.AC  - Natural Convection  - 8 CFM FAN  - Conduction Cooled									
ARF240U Single Output (U Bracket Type)					Size: 4.1 x 2.46 x 1.54 inches				
ARF240U-12S ☐	240	210 / 234		12	20	17.5	19.5	92.5	120
ARF240U-24S ☐	240	215 / 240		24	10	9.96	10	93	240
ARF240U-48S ☐	240	215 / 240		48	5	4.48	5	94	480
ARF240E Single Output (Enclosed Type)					Size: 4.1 x 2.46 x 1.54 inches				
ARF240E-12S ☐	240	210 / 234		12	20	17.5	19.5	92.5	120
ARF240E-24S ☐	240	215 / 240		24	10	9.96	10	93	240
ARF240E-48S ☐	240	215 / 240		48	5	4.48	5	94	480

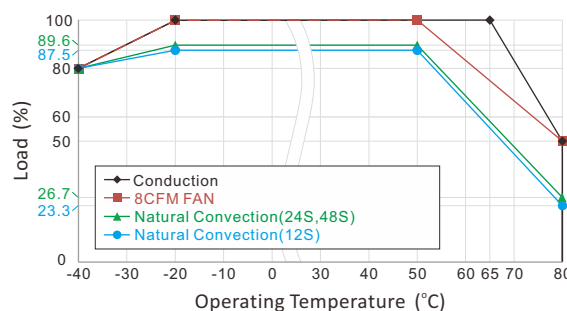
☐ :-A=A Type Terminal Block(All Series), -DRK=Din Rail Kit(ARF240O N/A)

Derating

Output Load vs. Operating Temperature
ARF240O Series



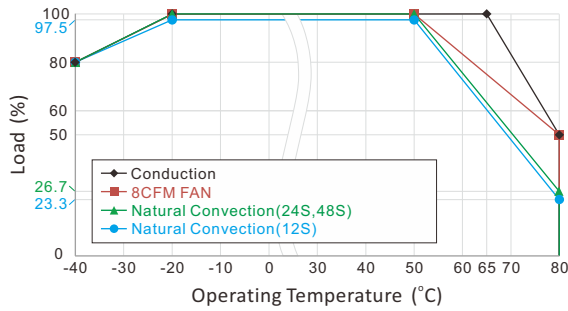
Output Load vs. Operating Temperature
ARF240U/E(Vin at 100-197 VAC) Series



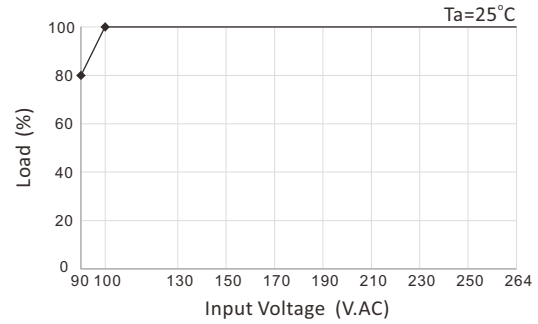
If input voltage is lower than 100VAC, please refer to the output derating V.S. input voltage curve for details

Derating

Output Load vs. Operating Temperature
ARF240U/E(Vin at 198-264 VAC) Series

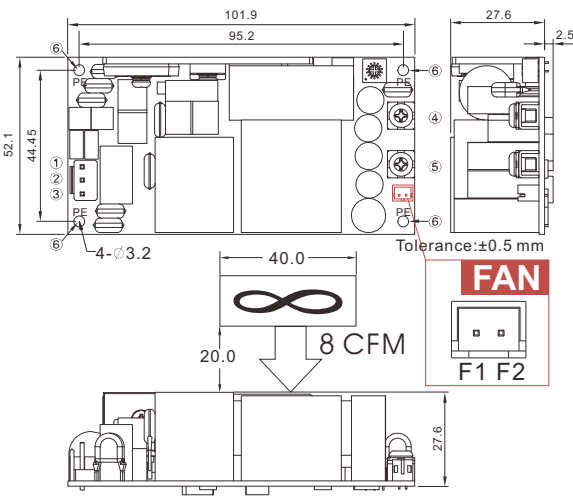


Load vs. Input Voltage
ARF240 Series

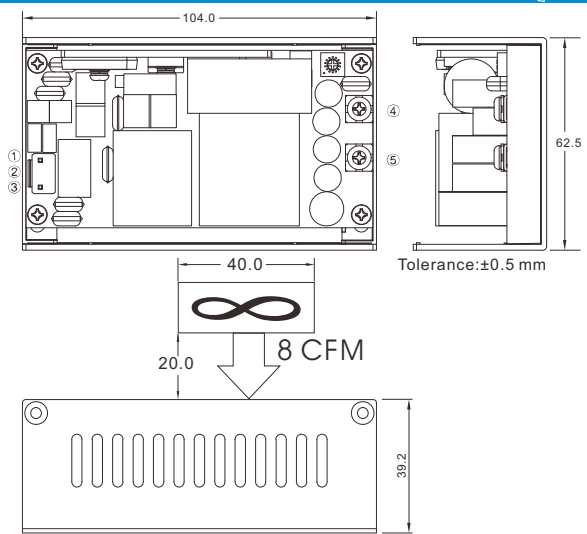


Outline Dimensions & Pin Connections

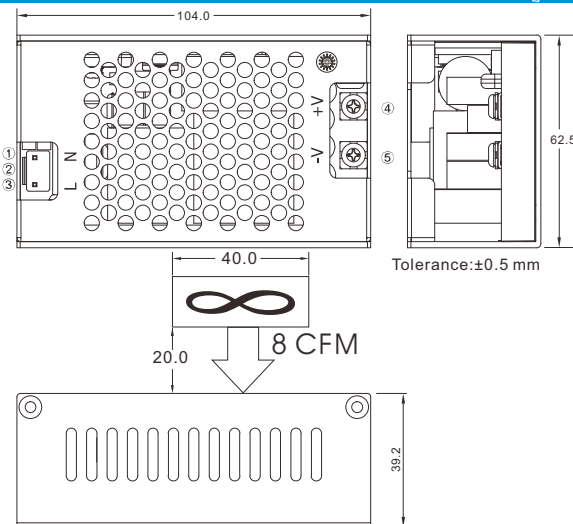
ARF2400



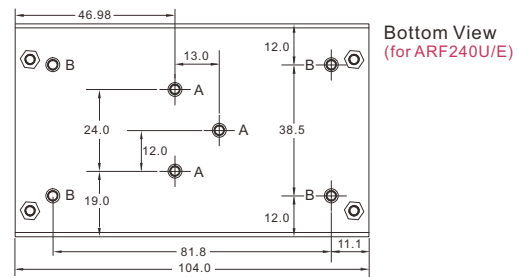
ARF240U



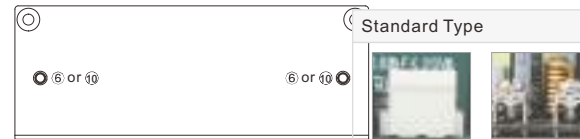
ARF240E



More Information



Bottom View
(for ARF240U/E)



Tolerance: ±0.5 mm

A= For fixture to chassis only

A=M3x0.5P

B=For fixture to pcb/chassis only

A,B=M3x0.5P

⑥ or ⑩=M3x0.5P

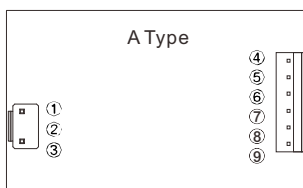
Torque: 3±0.5 Kgf.cm

A Type



*Note.

A Type



*Note. Please refer to the types of terminal block (Page 98~99); the pictures shown are for illustration purpose only, actual product may vary.

PIN#	PIN#	Single
Standard	A Type	
1	1	AC IN (N)
2	2	NO PIN
3	3	AC IN (L)
4	4~6	+DC OUT
5	7~9	-DC OUT
6, B	10, B	PE

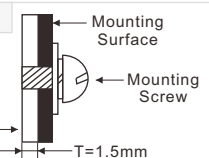
ARF2400
Connector Pin (FAN)

PIN#	Single
F1	+AUX OUT
F2	-AUX OUT

Assembly Instructions

Customer is advised to screw into the threads no more than 1.5mm

Chassis of ARF240U / ARF240E Series





More Details

ARF320 SERIES

320W AC-DC ITE Switching Power Supply

NEW

Preliminary

*Preliminary specifications, design and features are subject to change as development continues. All specifications are subject to change without prior notice.



UL / IEC / EN 62368-1
IEC / EN 60601-1 3.2nd (meet)



Unified Selection Guide

Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
									
Input Voltage:90~264 V.AC  - Natural Convection  - 14 CFM FAN  - Conduction Cooled									
ARF320O Single Output (Open Frame Type)					Size: 4.0 x 2.0 x 1.32 inches				
ARF320O-12S ☐	320	270	200	12	26.67	22.5	16.67	93	150
ARF320O-24S ☐	320	270	200	24	13.33	11.25	8.33	93.5	200
ARF320O-48S ☐	320	270	200	48	6.67	5.63	4.17	94	250
Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
									
Input Voltage:90~264 V.AC  - Natural Convection  - 14 CFM FAN  - Conduction Cooled									
ARF320E Single Output (Enclosed Type)					Size: 4.09 x 2.28 x 1.398 inches				
ARF320E-12S ☐	320	270	190	12	26.67	22.5	15.83	93	150
ARF320E-24S ☐	320	270	190	24	13.33	11.25	7.92	93.5	200
ARF320E-48S ☐	320	270	190	48	6.67	5.63	3.96	94	250

☐ :-A=A Type Terminal Block

ITE Switching PSU — ARF320

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No Load Power Consumption < 0.3W



Over-Voltage Category III



150% Peak Load (3 Sec)



Active PFC Function



Efficiency up to 94%



EMI for Both Class I (with PE) and Class II (without PE) Configuration



I/O Isolation: 4250VAC



A Type Terminal Block for Option

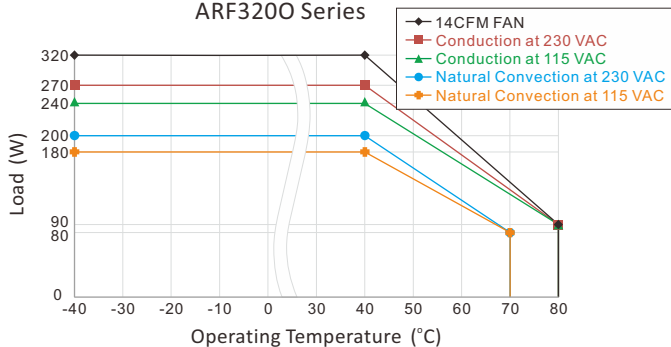


Operating Temperature:
-40°C~+80°C with derating

Derating

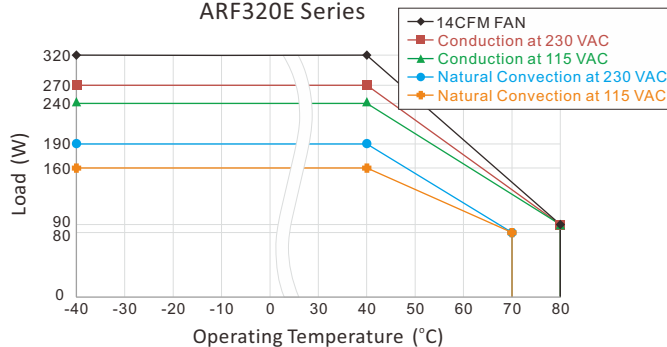
Output Load vs. Operating Temperature

ARF320O Series



Output Load vs. Operating Temperature

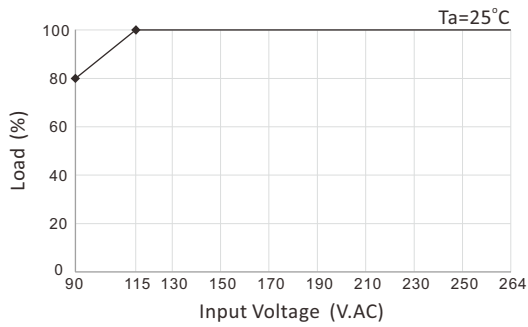
ARF320E Series



Derating

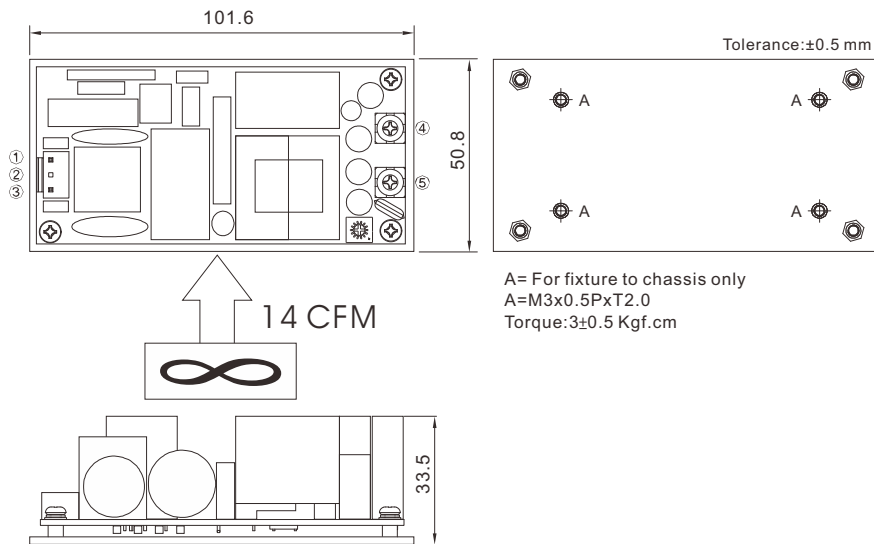
Load vs. Input Voltage

ARF320 Series

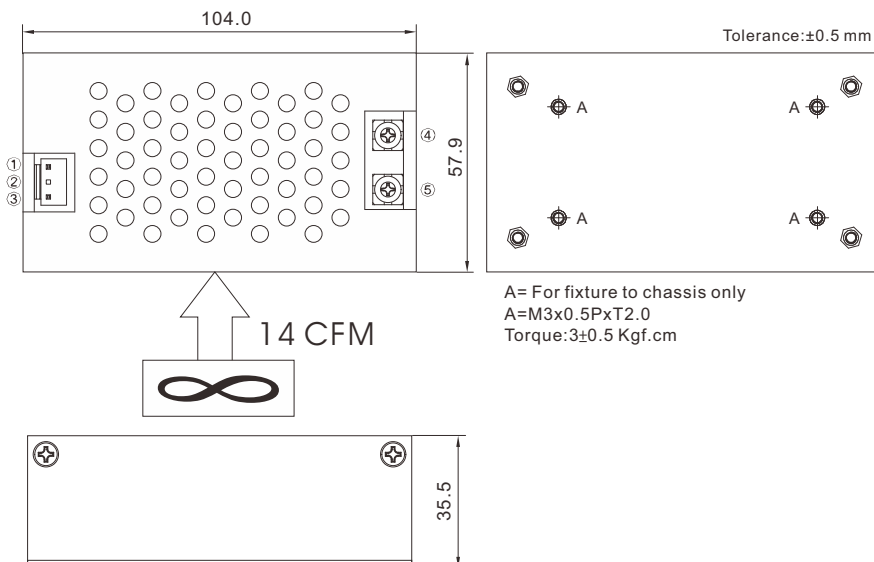


Outline Dimensions & Pin Connections

ARF3200 (Standard Type)



ARF320E (Standard Type)



More Information

Standard Type

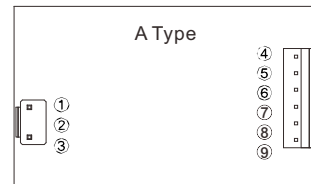


A Type



* Note. Please refer to the types of terminal block (Page 98~99); the pictures shown are for illustration purpose only, actual product may vary.

A Type

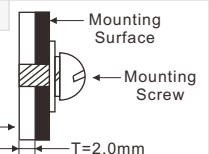


PIN#	PIN#	Single
Standard	A Type	
1	1	AC IN (L)
2	2	NO PIN
3	3	AC IN (N)
4	4~6	+DC OUT
5	7~9	-DC OUT
A	A	PE

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of ARF2200 / ARF220E Series



For more details for Terminal Block, Please refer to the Page 98~99



More Details

ARFN500 SERIES

500W AC-DC ITE Switching Power Supply

ITE Switching PSU — ARFN500

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UL / IEC / EN 62368-1



Unified Selection Guide

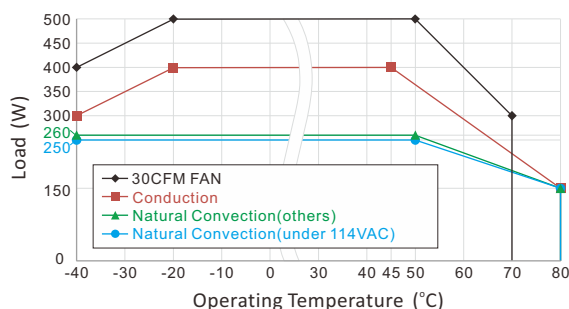
- Over-Voltage Category III
- Operating Altitude 5000m (OVC III:2000m)
- Built-in 12V / 0.3A Auxiliary Output (ARFN500U only)
- Standby 5V@1A with Fan, @0.4A without Fan
- Active PFC Function
- Efficiency up to 93%
- Semi-Potted Design
- I/O Isolation: 4250VAC
- Din Rail Kit for Option
- Protection:OPP / OVP / OTP / SCP

Model No.	Power (W)			O/P Volt. (V/DC)	Output Current (A)				EFF (%)	Ripple & Noise (mV)		
		 100 / 230 Vin	 100 / 230 Vin			 100Vin 230Vin		 100Vin 230Vin				
Input Voltage:90~264 V.AC  - Natural Convection  - 30 CFM FAN  - Conduction Cooled												
ARFN500U Single Output (U Bracket Type)					Size: 5.12 x 3.27 x 1.57 inches							
ARFN500U-12S		500	410 / 450	250 / 350	12	41.5	34.1	37.5	20.83	29.1	92	160
ARFN500U-24S		500	410 / 450	250 / 350	24	20.8	17.05	18.75	10.42	14.58	92.5	240
ARFN500U-48S		500	410 / 450	250 / 350	48	10.41	8.54	9.375	5.21	7.29	93	480
Model No.	Power (W) 			O/P Volt. (V.DC)	Output Current (A)				EFF (%)	Ripple Noise (mV)		
Input Voltage:90~264 V.AC  - Built-in Fan												
ARFN500E Single Output (Enclosed Type)					Size: 5.12 x 3.27 x 2.45 inches							
ARFN500E-12S		500		12	41.5				91.5		160	
ARFN500E-24S		500		24	20.8				92		240	
ARFN500E-48S		500		48	10.41				92.5		480	

:-DRK=Din Rail Kit

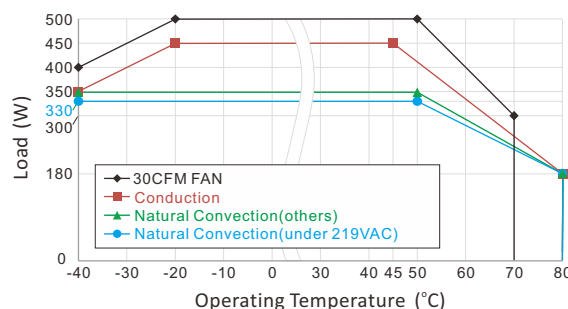
Derating

Output Load vs. Operating Temperature
ARFN500U(Vin at 100-197 VAC) Series



If input voltage is lower than 100VAC, please refer to the output derating V.S. input voltage curve for details

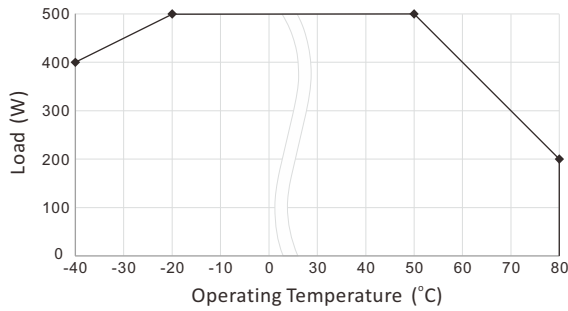
Output Load vs. Operating Temperature
ARFN500U(Vin at 198-264 VAC) Series



Derating

Output Load vs. Operating Temperature

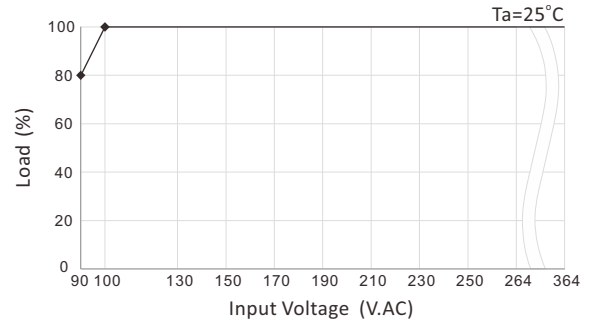
ARFN500E Series



If input voltage is lower than 100VAC, please refer to the output derating V.S. input voltage curve for details

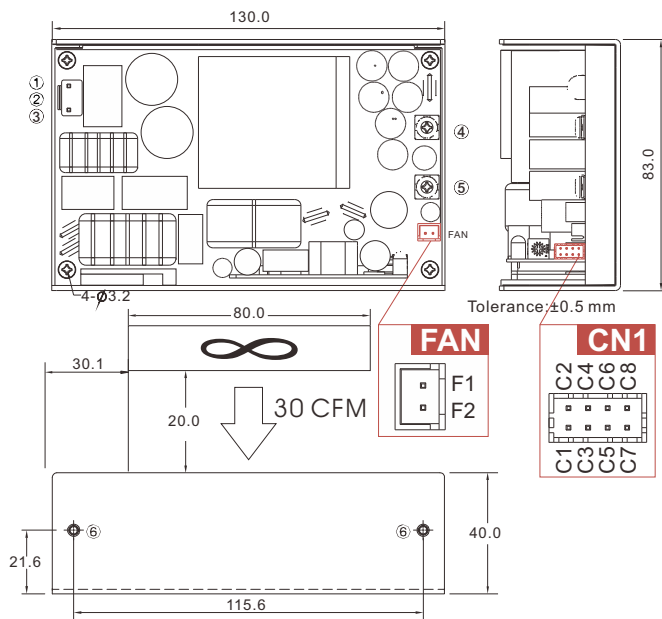
Load vs. Input Voltage

ARFN500 Series

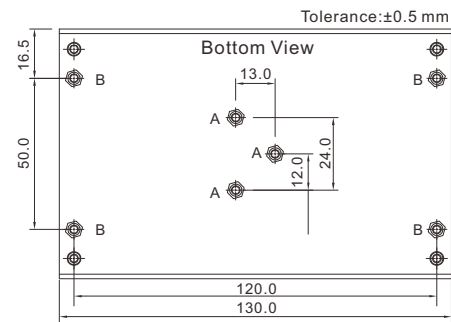


Outline Dimensions & Pin Connections

ARFN500U



More Information

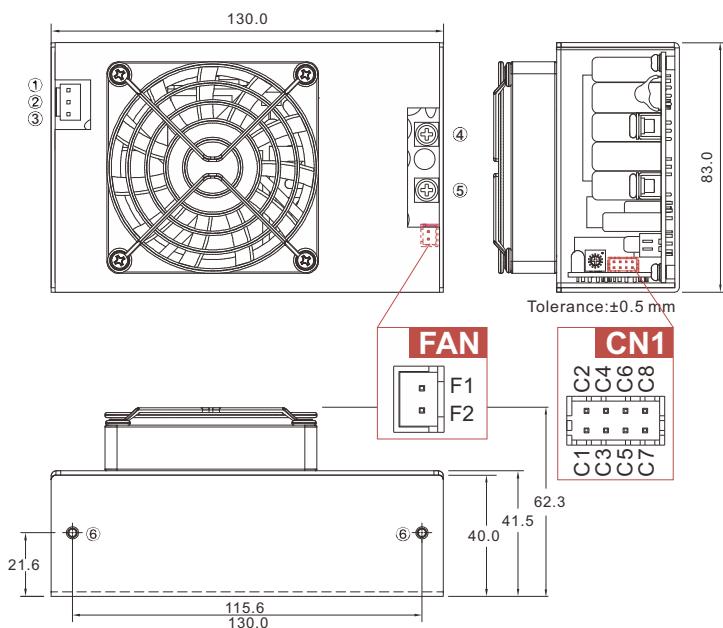


A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm

PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4	+DC OUT
5	-DC OUT
6, A, B	PE

PIN#	Single
F1	+12V
F2	GND

ARFN500E



Connector Pin (CN1)

PIN#	Single
C1	-5V SB
C2	+5V SB
C3	GND
C4	DC-OK
C5	-RC
C6	+RC
C7	-S
C8	+S

Assembly Instructions

Customer is advised to screw into the threads no more than 1.5mm

Chassis of ARFN500U / ARFN500E Series

T=1.5mm

For more details for Terminal Block, Please refer to the Page 98~99



More Details

AQF700 / AQF700C SERIES

700W AC-DC ITE Switching Power Supply

ITE Switching PSU — AQF700(C)

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UL / IEC / EN 62368-1



Unified Selection Guide

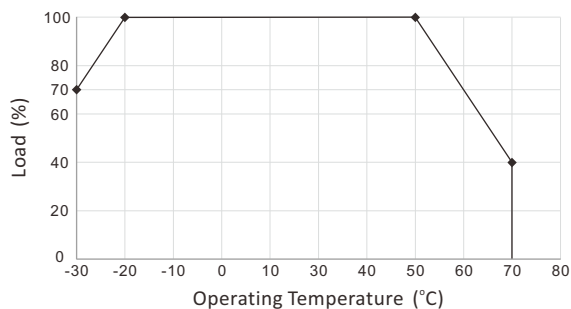
- Over-Voltage Category III
- Operating Altitude 5000m (OVC III:2000m)
- With P.F.C. Function >0.9
- Efficiency up to 92%
- Standby 5V@1A
- I/O Isolation: 4250VAC
- Current Share Function for AQF700C
- Din Rail Kit for Option
- Operating Temperature: -30°C~+70°C with derating

Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF700 Single Output (Enclosed Type)				Size: 6.7 x 3.66 x 1.61 inches		
AQF700-12S ☐	625	90~264	12	52.08	89	160
AQF700-15S ☐	700	90~264	15	41.66	90	160
AQF700-24S ☐	700	90~264	24	29.16	91	240
AQF700-28S ☐	700	90~264	28	25	92	280
AQF700-48S ☐	700	90~264	48	14.58	92	480
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF700C Single Output (Enclosed Type)				Size: 6.7 x 3.66 x 1.61 inches		
AQF700C-12S ☐	625	90~264	12	52.08	89	160
AQF700C-15S ☐	700	90~264	15	41.66	90	160
AQF700C-24S ☐	700	90~264	24	29.16	91	240
AQF700C-28S ☐	700	90~264	28	25	92	280
AQF700C-48S ☐	700	90~264	48	14.58	92	480

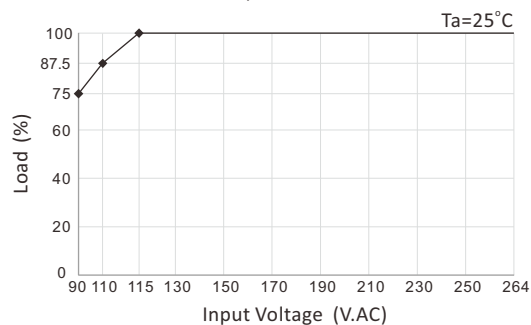
☐ :-DRK=Din Rail Kit

Derating

Output Load vs. Operating Temperature
AQF700, AQF700C Series

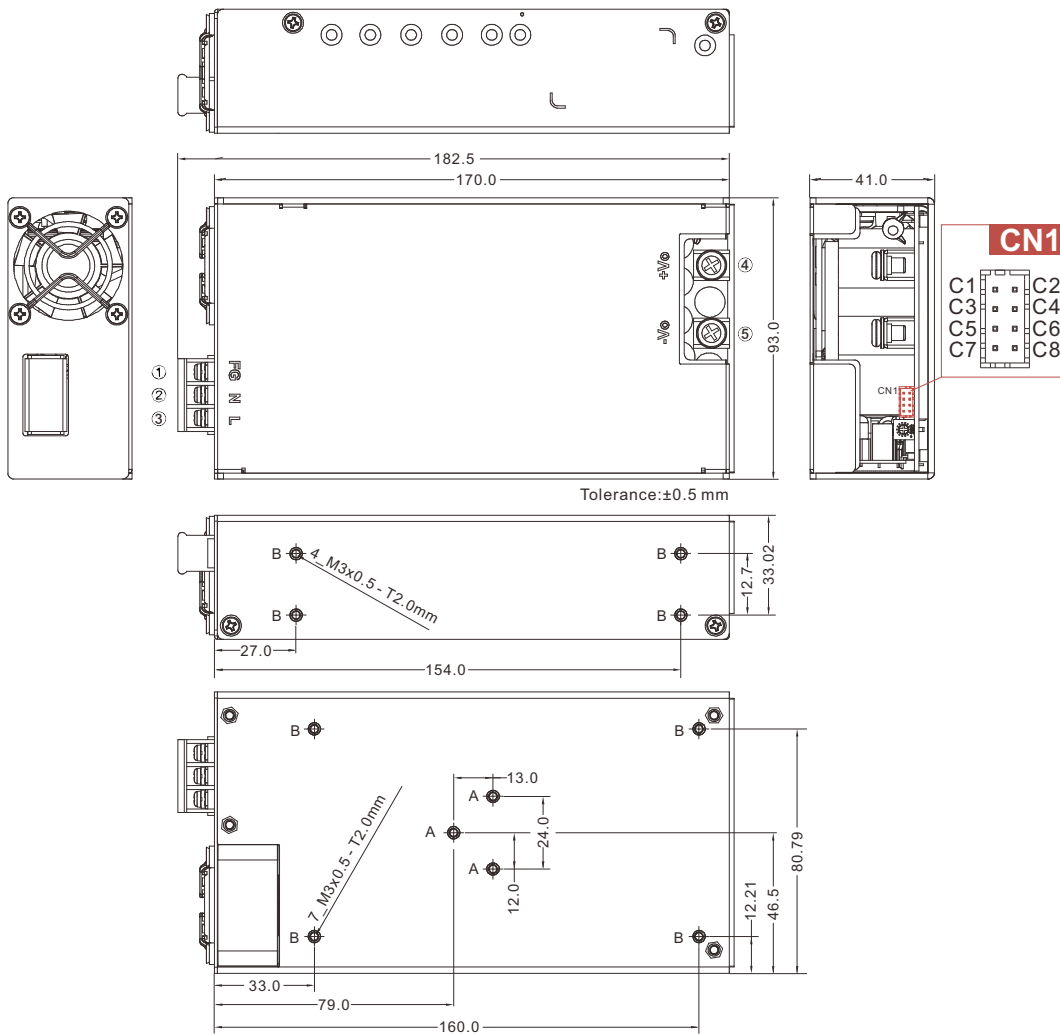


Load vs. Input Voltage
AQF700, AQF700C Series



Outline Dimensions & Pin Connections

AQF700, AQF700C



A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm
Input & output connectors tightening torque : 6 Kgf.cm

AQF700 Series Connector Pin (CN1)		AQF700C Series Connector Pin (CN1)	
PIN#	Single	PIN#	Single
1	FG	C1	+S
2	AC IN (N)	C2	-S
3	AC IN (L)	C3	NC
4	+DC OUT	C4	-5V SB
5	-DC OUT	C5	GND / -RC
A, B	PE	C6	+RC
		C7	PG
		C8	+5V SB

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of AQF700 / AQF700C Series

Mounting Surface

Mounting Screw

T=2.0mm

For more details for Terminal Block, Please refer to the Page 98~99



More Details

ARF750 SERIES

750W AC-DC ITE Switching Power Supply

NEW

Preliminary

*Preliminary specifications, design and features are subject to change as development continues. All specifications are subject to change without prior notice.

CE **UL** **CB**
E199779
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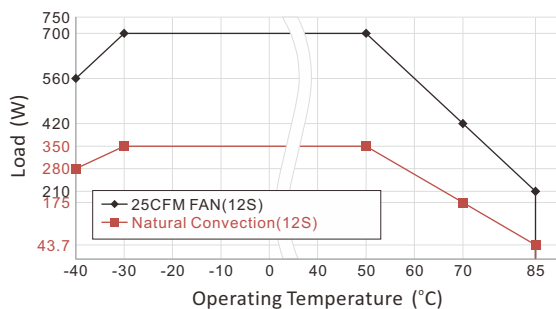
Unified Selection Guide

- Over-Voltage Category III
- 120% Peak Load (3 Sec)
- Active PFC Function
- Efficiency up to 94%
- I/O Isolation: 4300VAC
- A Type Terminal Block for Option
- Operating Temperature: -40°C~+85°C with derating
- Protection: OPP / OVP / OTP / SCP

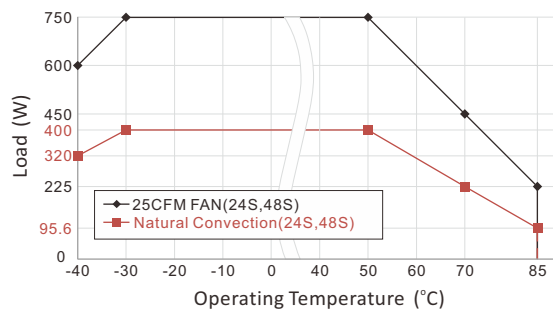
Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)		EFF (%)	Ripple & Noise (mV)
							
Input Voltage:90~264 V.AC				 - Natural Convection		 - 25 CFM FAN	
ARF750O Single Output (Open Frame Type)				Size: 5.0 x 3.0 x 1.6 inches			
ARF750O-12S	700	350	12	58.3	29.16	92	120
ARF750O-24S	750	400	24	31.25	16.66	93	200
ARF750O-48S	750	400	48	15.62	8.33	94	250
ARF750E Single Output (Enclosed Type)				Size: 5.12 x 3.27 x 1.6 inches			
ARF750E-12S	700	300	12	58.3	25	92	120
ARF750E-24S	750	350	24	31.25	14.58	93	200
ARF750E-48S	750	350	48	15.62	7.29	94	250

Derating

Output Load vs. Operating Temperature
ARF750O-12S Series



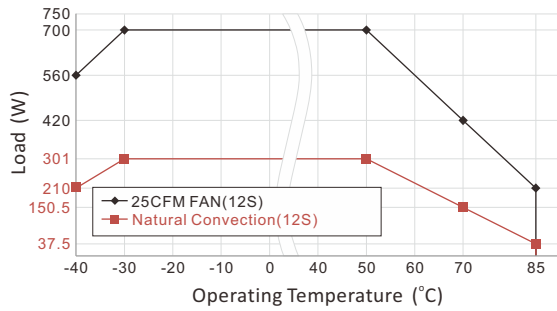
Output Load vs. Operating Temperature
ARF750O-24S,48S Series



Derating

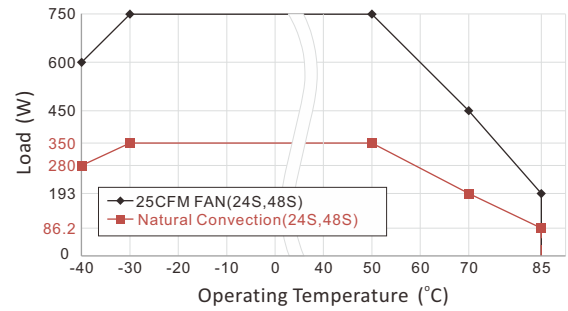
Output Load vs. Operating Temperature

ARF750U-12S Series



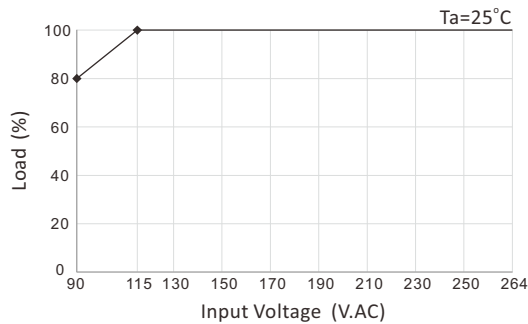
Output Load vs. Operating Temperature

ARF750U-24S,48S Series



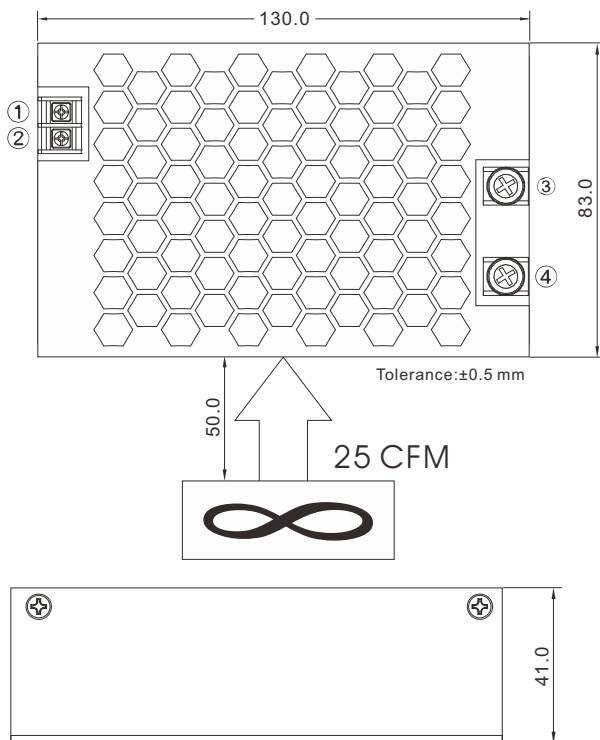
Load vs. Input Voltage

ARF750 Series



Outline Dimensions & Pin Connections

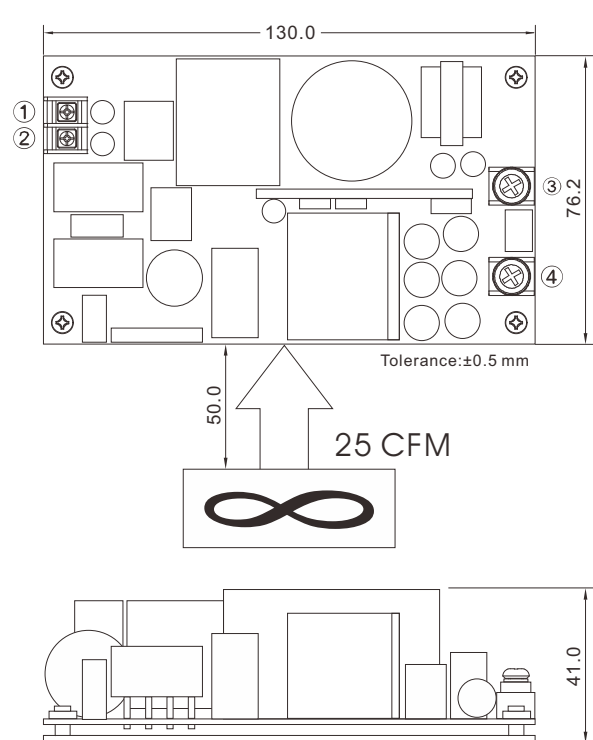
ARF7500



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99

ARF750E



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

For more details for Terminal Block, please refer to the Page 98~99



More Details

AQF1000 / AQF1000C SERIES

1KW AC-DC ITE Switching Power Supply

ITE Switching PSU — AQF1000(C)



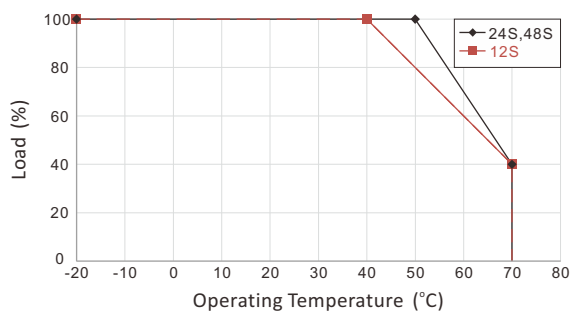
Unified Selection Guide

- Over-Voltage Category III
- Operating Altitude 5000m (OVC III:2000m)
- With P.F.C. Function >0.9
- Efficiency up to 92%
- Standby 5V@1A
- Remote ON/OFF Function
- Current Share Function for AQF1000C
- I/O Isolation: 4300VAC
- Operating Temperature: -20°C~+70°C with derating

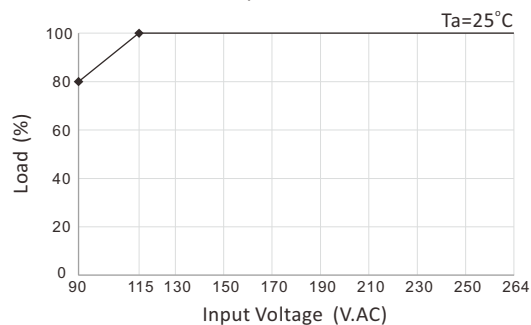
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF1000 Single Output (Enclosed Type)				Size: 7.6 x 4.02 x 1.62 inches		
AQF1000-12S	800	90~264	12	66.67	89	160
AQF1000-24S	1000	90~264	24	41.67	92	240
AQF1000-48S	1000	90~264	48	20.84	92	480
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
AQF1000C Single Output (Enclosed Type)				Size: 7.6 x 4.02 x 1.62 inches		
AQF1000C-12S	800	90~264	12	66.67	89	160
AQF1000C-24S	1000	90~264	24	41.67	92	240
AQF1000C-48S	1000	90~264	48	20.84	92	480

Derating

Output Load vs. Operating Temperature
AQF1000, AQF1000C Series

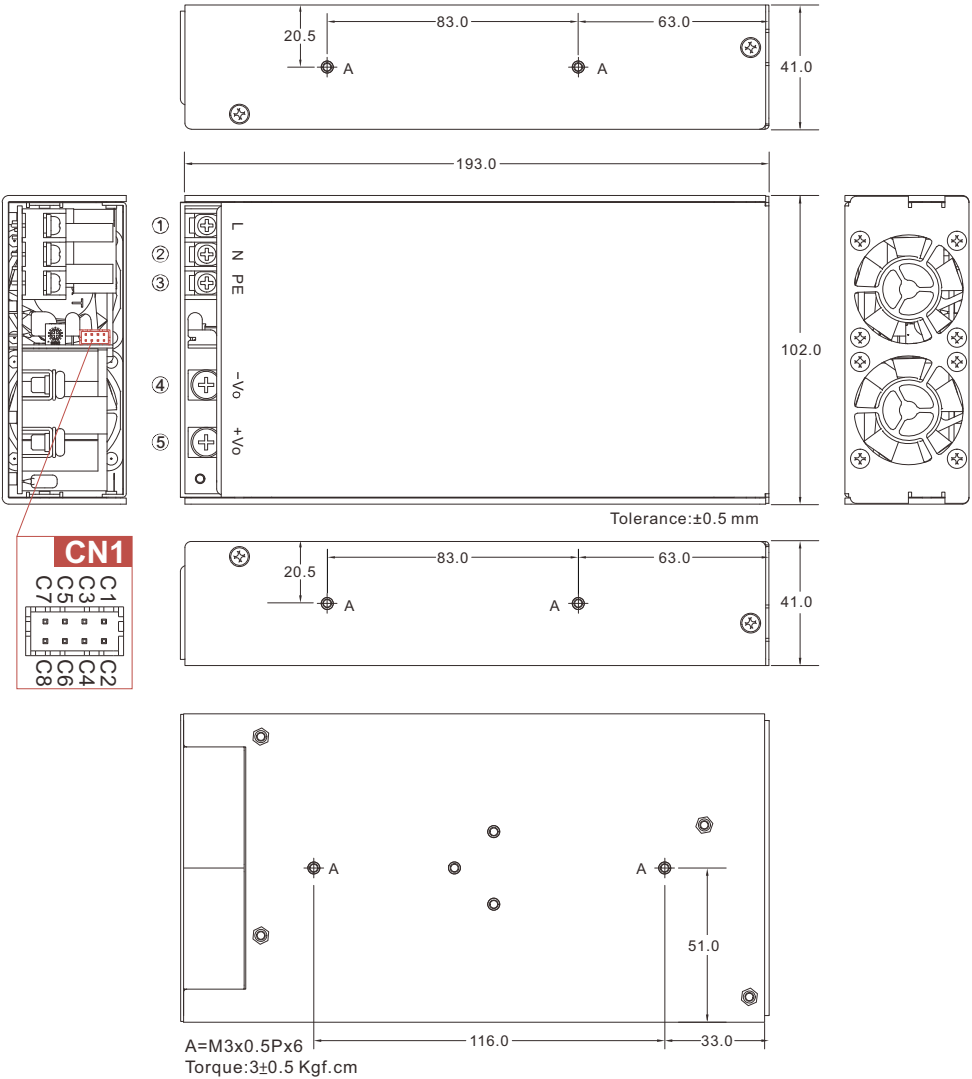


Load vs. Input Voltage
AQF1000/AQF1000C Series



Outline Dimensions & Pin Connections

AQF1000, AQF1000C



PIN#	Single
1	AC IN (L)
2	AC IN (N)
3, A	PE
4	-DC OUT
5	+DC OUT

AQF1000 Series Connector Pin (CN1)	
PIN#	Single
C1	+S
C2	-S
C3	NC
C4	-5V SB
C5	GND / -RC
C6	+RC
C7	PG
C8	+5V SB

AQF1000C Series Connector Pin (CN1)	
PIN#	Single
C1	+S
C2	-S
C3	CS
C4	-5V SB
C5	GND / -RC
C6	+RC
C7	PG
C8	+5V SB

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of AQF700 / AQF700C Series

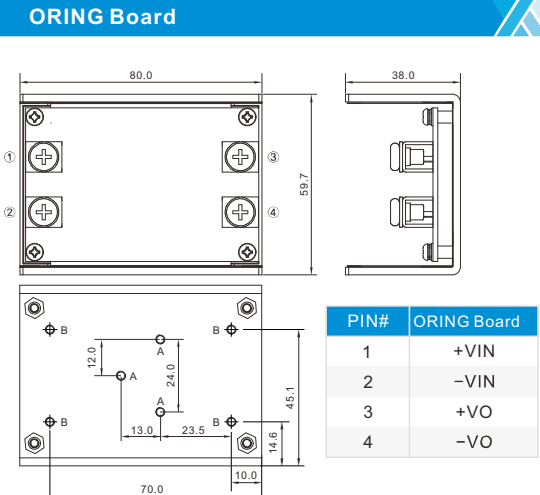
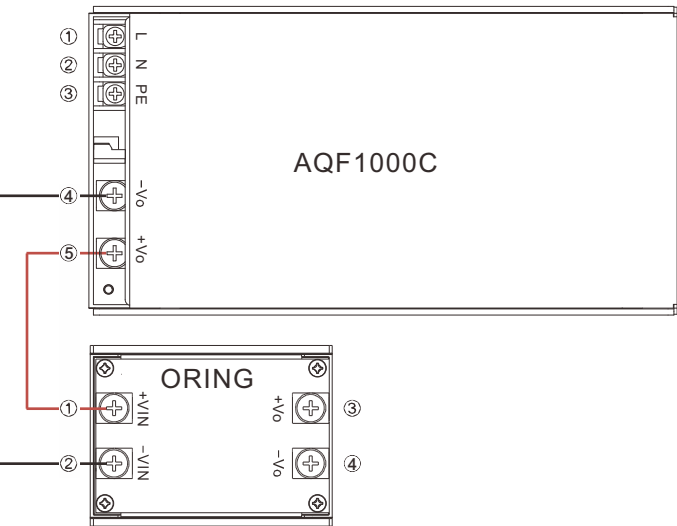
Mounting Surface

Mounting Screw

T=2.0mm

For more details for Terminal Block, Please refer to the Page 98~99

How to Attach ORING Board To AQF1000C Series



PIN#	ORING Board
1	+VIN
2	-VIN
3	+VO
4	-VO



More Details

ARF1300 SERIES

1.3KW AC-DC ITE Switching Power Supply

ITE Switching PSU — ARF1300

80

CE CB
E199779
UL / IEC / EN 62368-1



Unified Selection Guide

	Over-Voltage Category III
	Operating Altitude 5000m (OVC III:2000m)
	Active PFC Function
	Efficiency up to 93%
	Standby 5V@1A with Fan, @0.4A without Fan
	Semi-Potted Design
	I/O Isolation: 4250VAC
	Operating Temperature: -30°C~+70°C with derating
	Protection:OPP / OVP / OTP / SCP

Model No.	Power (W)			O/P Volt. (V.DC)	Output Current (A)						EFF (%)	Ripple & Noise (mV)	
													
	115 / 230 Vin	115 / 230 Vin	115 / 230 Vin		115 Vin	230 Vin	115 Vin	230 Vin	115 Vin	230 Vin			
Input Voltage:90~264 V.AC  - Natural Convection  - 40 CFM FAN  - Conduction Cooled													
ARF1300E Single Output (Enclosed Type)										Size: 7.8 x 4.49 x 1.62 inches			
ARF1300E-12S	1K/1.1K	650/700	500/550	12	83.4	91.6	54.1	58.3	41.6	45.8	90.5	160	
ARF1300E-24S	1300	700/800	500/650	24	54.1	54.1	29.1	33.3	20.8	27.1	92.5	240	
ARF1300E-48S	1300	700/800	500/650	48	27.1	27.1	14.5	16.6	10.4	13.5	93	480	
Model No.	Power (W) 		O/P Volt. (V.DC)	Output Current (A)				EFF (%)	Ripple Noise (mV)				
	115 Vin	230 Vin		115 Vin		230 Vin							
Input Voltage:90~264 V.AC										 - Built-in Fan			
ARF1300F Single Output (Enclosed Type)										Size: 8.84 x 4.49 x 1.62 inches			
ARF1300F-12S	1000	1100	12	83.4		91.6		90.5	160				
ARF1300F-24S	1300	1300	24	54.1		54.1		92.5	240				
ARF1300F-48S	1300	1300	48	27.1		27.1		93	480				

High Power Density & Lightweight Design

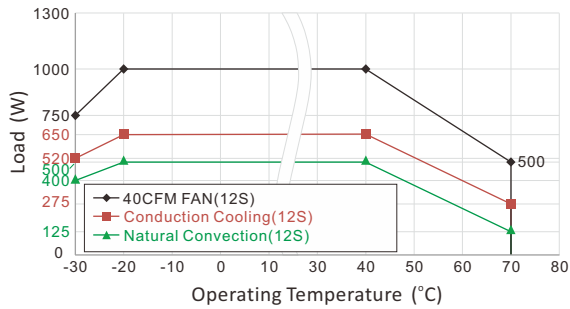
- Compact size: Only 41 mm in height
- Lightweight: 1.35–1.45 kg
- High power density up to 1.40 W/cm³
- Space-saving: Nearly **50%** smaller and lighter than conventional 1.5 kW power supplies
- Ideal for compact enclosures



Derating

Output Load vs. Operating Temperature

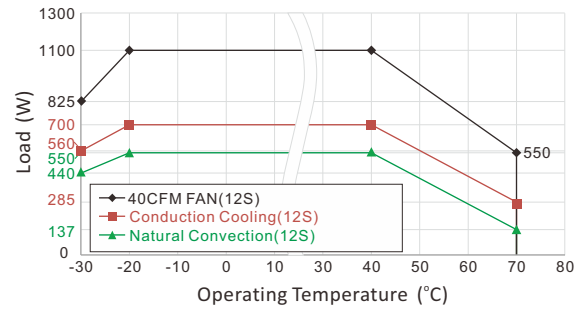
ARF1300E-12S(Vin at 115-197 VAC)



If input voltage is lower than 115VAC, please refer to the output derating V.S. input voltage curve for details

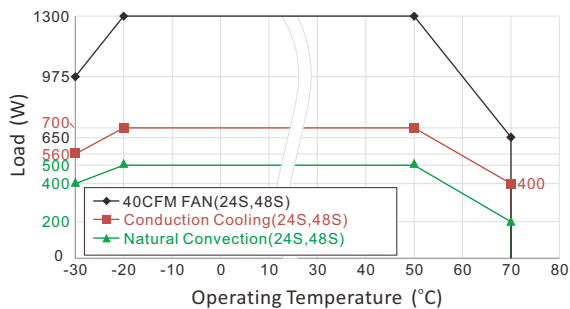
Output Load vs. Operating Temperature

ARF1300E-12S(Vin at 198-264 VAC)



Output Load vs. Operating Temperature

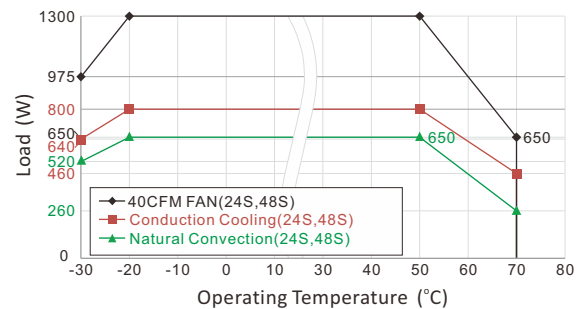
ARF1300E-24S,48S(Vin at 115-197 VAC)



If input voltage is lower than 115VAC, please refer to the output derating V.S. input voltage curve for details

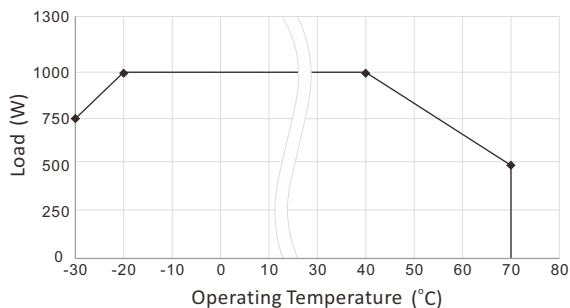
Output Load vs. Operating Temperature

ARF1300E-24S,48S(Vin at 198-264 VAC)



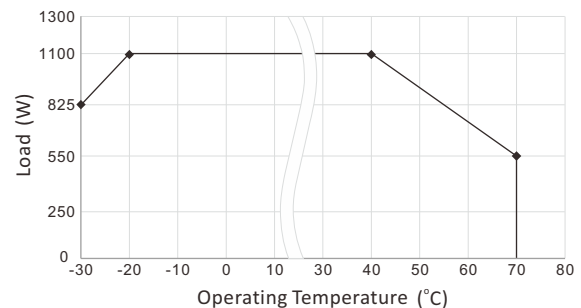
Output Load vs. Operating Temperature

ARF1300F-12S(Vin at 115-197 VAC)



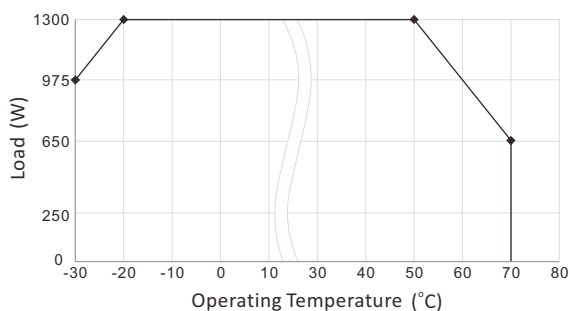
Output Load vs. Operating Temperature

ARF1300F-12S(Vin at 198-264 VAC)



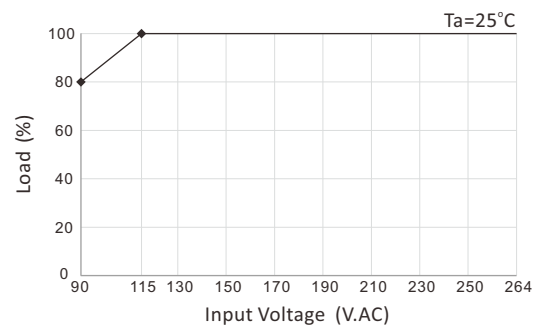
Output Load vs. Operating Temperature

ARF1300F-24S,48S



Load vs. Input Voltage

ARF1300 Series



Next Page



More Details

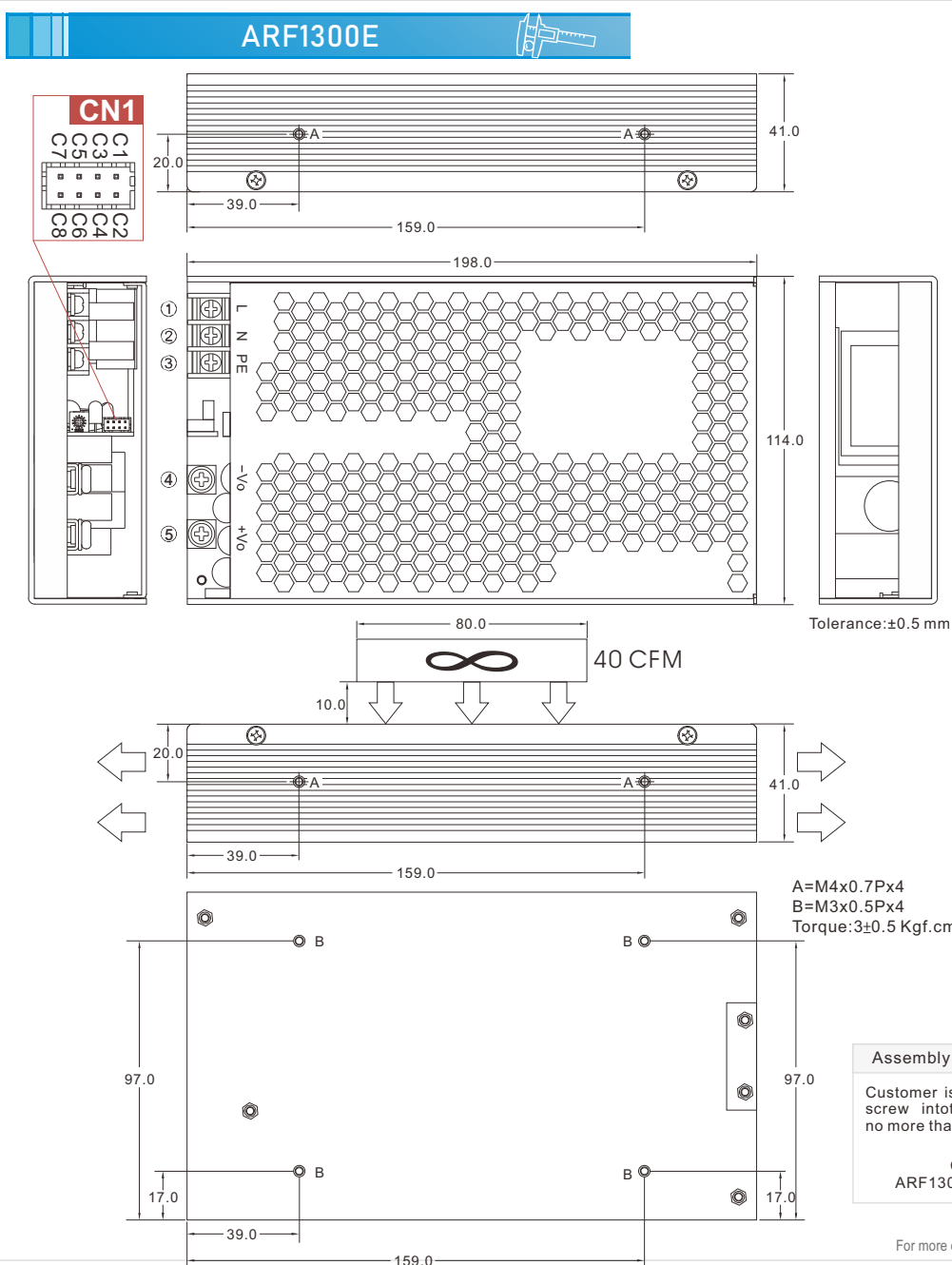
ARF1300 SERIES

1.3KW AC-DC ITE Switching Power Supply

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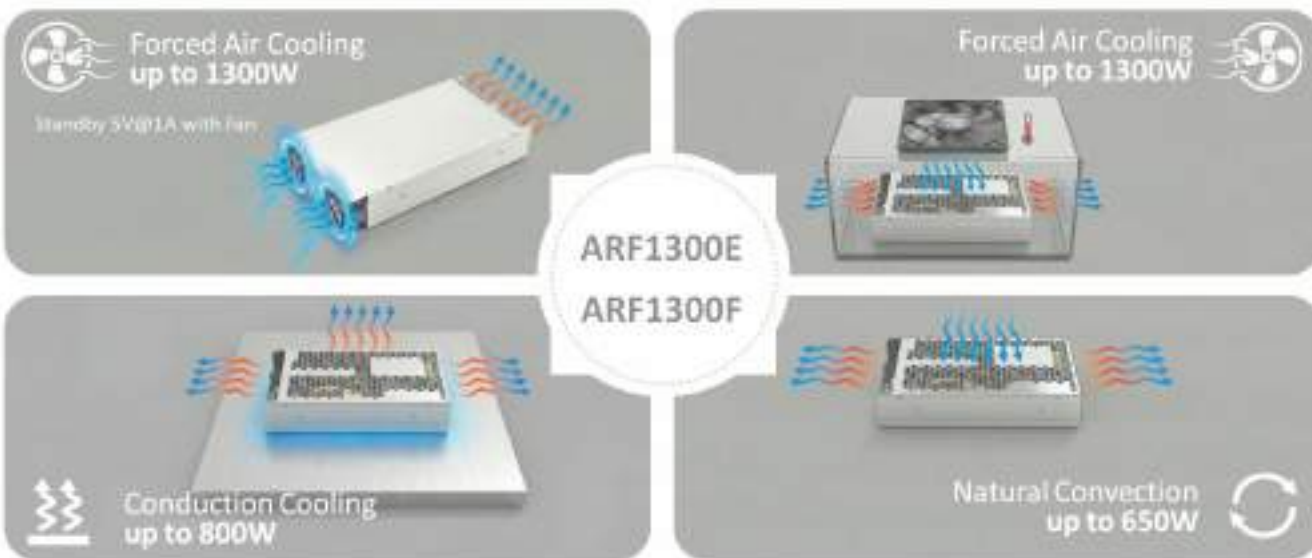


Outline Dimensions & Pin Connections

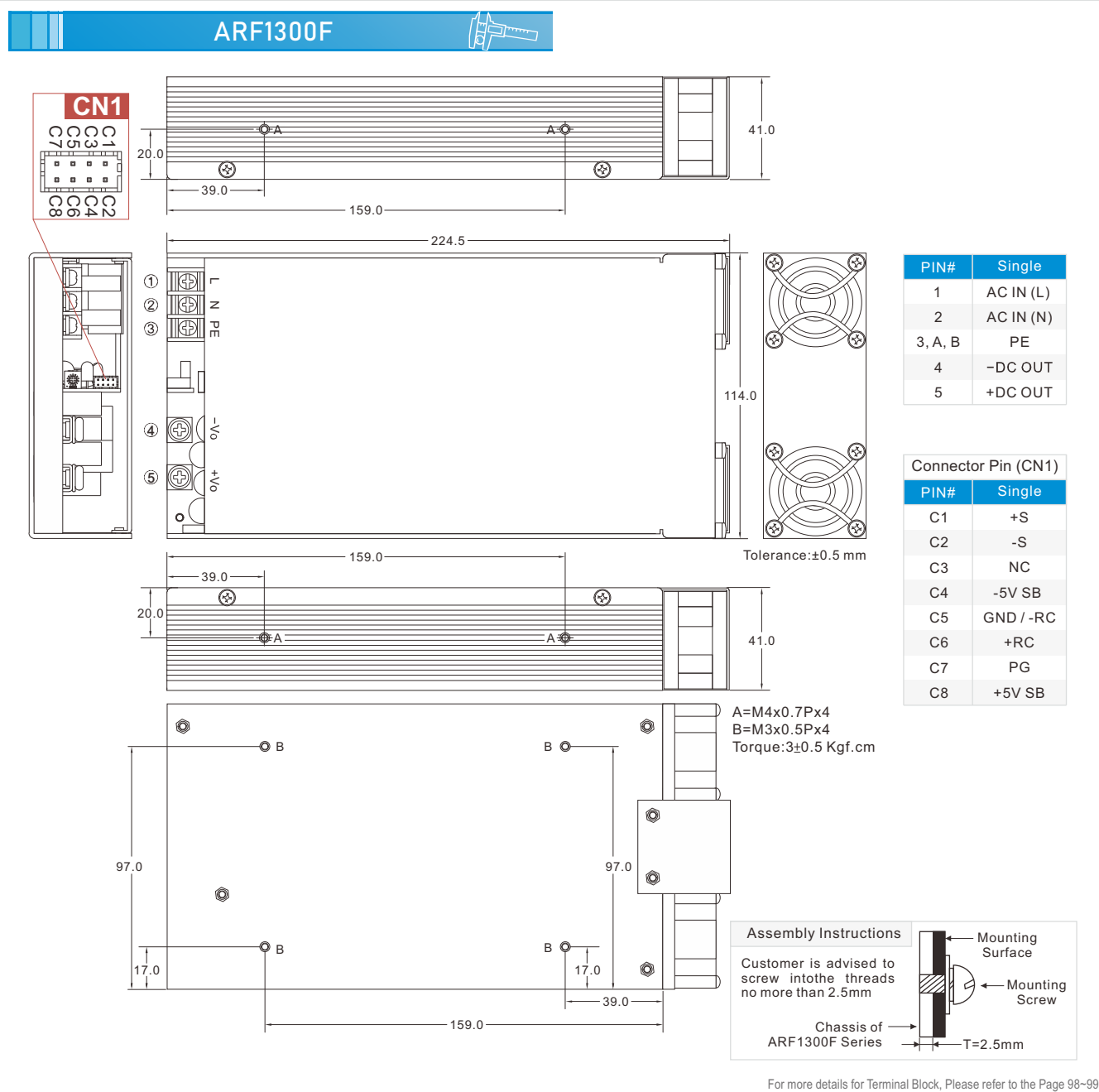


For more details for Terminal Block, Please refer to the Page 98~99

Flexible Thermal Management with Multiple Cooling Modes



Outline Dimensions & Pin Connections





More Details

MQF120 SERIES

120W AC-DC Medical Switching Power Supply



Medical Switching PSU — MQF120

84



IEC / EN 60601-1 3.1st 2 x MOPP



Unified Selection Guide

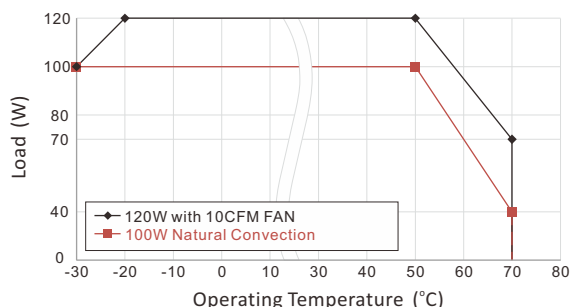
- No Load Power Consumption < 0.3W
- Operating Altitude 5000m (OVC II)
- Efficiency up to 91%
- With P.F.C. Function >0.9
- EMI for Both Class I (with PE) and Class II (without PE) Configuration
- Suitable for BF Application with Appropriate System Consideration
- I/O Isolation: 4000VAC
- Din Rail Kit for Option
- Operating Temperature: -30°C~+70°C with derating
- Protection:OPP / OVP / OTP / SCP

Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)		EFF (%)	Ripple & Noise (mV)
							
Input Voltage:90~264 V.AC				 - Natural Convection  - 10 CFM FAN			
MQF120O Single Output (Open Frame Type)				Size: 3.04 x 2.0 x 1.2 inches			
MQF120O-12S	120	100	12	10	8.333	90	160
MQF120O-24S	120	100	24	5	4.167	90	240
MQF120O-48S	120	100	48	2.5	2.083	91	480
MQF120U Single Output (U Bracket Type)				Size: 3.15 x 2.35 x 1.5 inches			
MQF120U-12S 	120	90	12	10	7.5	90	160
MQF120U-24S 	120	90	24	5	3.75	90	240
MQF120U-48S 	120	90	48	2.5	1.875	91	480
MQF120E Single Output (Enclosed Type)				Size: 3.15 x 2.35 x 1.7 inches			
MQF120E-12S 	120	85	12	10	7.083	90	160
MQF120E-24S 	120	85	24	5	3.542	90	240
MQF120E-48S 	120	85	48	2.5	1.771	91	480

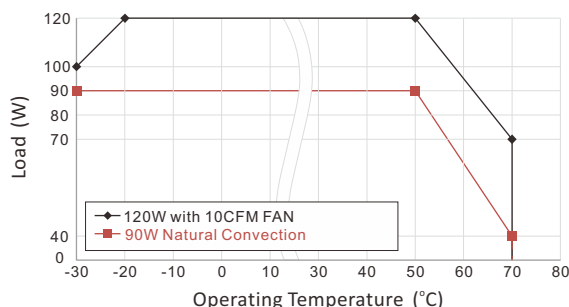
□ :-DRK=Din Rail Kit(MQF120O N/A)

Derating

Output Load vs. Operating Temperature
MQF120O Series



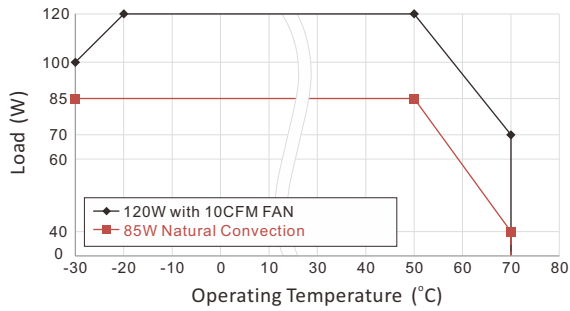
Output Load vs. Operating Temperature
MQF120U Series



Derating

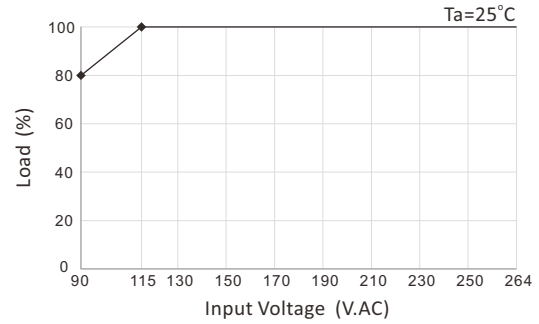
Output Load vs. Operating Temperature

MQF120E Series



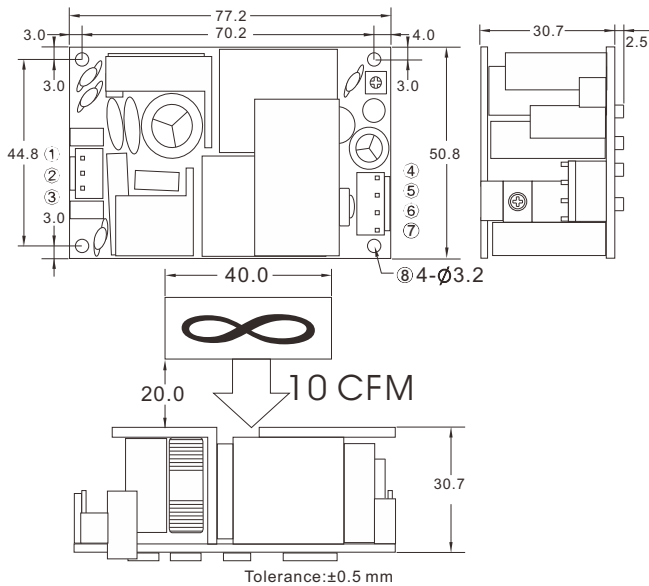
Load vs. Input Voltage

MQF120 Series

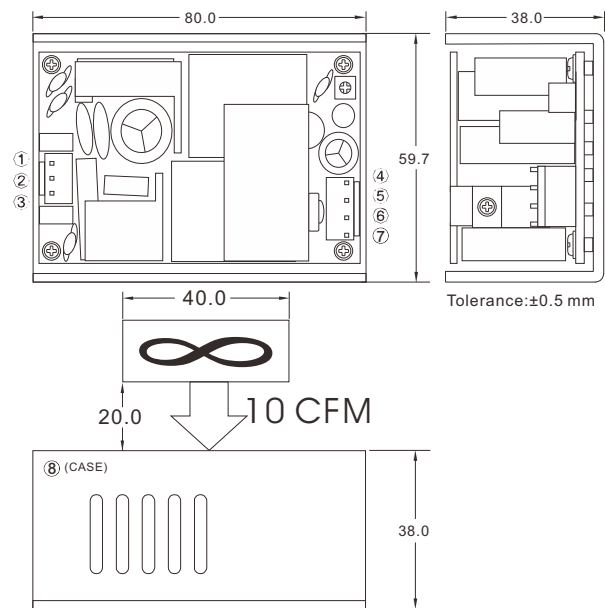


Outline Dimensions & Pin Connections

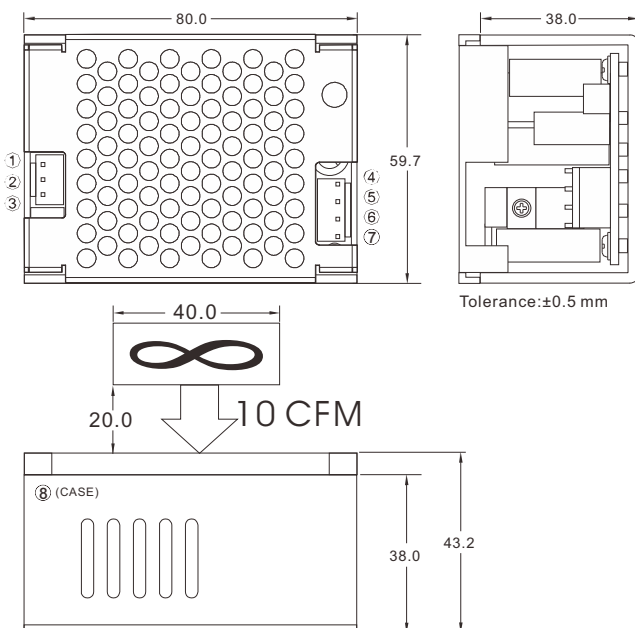
MQF1200



MQF120U

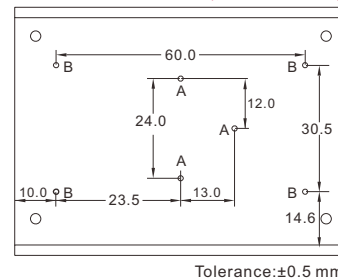


MQF120E



More Information

Bottom View
(for MQF120U/E)



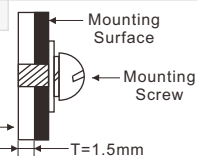
PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4~5	+DC OUT
6~7	-DC OUT
8	PE

A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm

Assembly Instructions

Customer is advised to screw into the threads no more than 1.5mm

Chassis of MQF120U / MQF120E Series



For more details for Terminal Block, Please refer to the Page 98~99



More Details

MQF240 SERIES

240W AC-DC Medical/ITE Switching Power Supply



Medical Switching PSU — MQF240

86



UL / IEC / EN 62368-1(15S meet)
IEC / EN 60601-1 3.2nd 2 x MOPP



Unified Selection Guide

ITE + Medical



No Load Power Consumption < 0.5W



Operating Altitude 5000m (OVC II)



Efficiency up to 94%



Built-in 12V/0.5A Fan Supply
(MQF240E N/A)



With P.F.C. Function >0.9



EMI for Both Class I (with PE) and
Class II (without PE) Configuration



Suitable for BF Application with
Appropriate System Consideration



I/O Isolation: 4000VAC



A Type Terminal Block /
DIN Rail Kit Options



Operating Temperature:
-30°C~+70°C with derating



Protection:OPP / OVP / OTP / SCP

Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)		EFF (%)	Ripple & Noise (mV)

Input Voltage:90~264 V.AC

- Natural Convection - 10 CFM FAN

MQF240O Single Output (Open Frame Type) Size: 4.1 x 2.05 x 1.087 inches

MQF240O-12S	240	160	12	20	13.3	92.5	120
MQF240O-15S	240	160	15	16	10.667	92.5	150
MQF240O-24S	240	160	24	10	6.66	93	240
MQF240O-48S	240	160	48	5	3.33	94	480

MQF240U Single Output (U Bracket Type) Size: 4.1 x 2.44 x 1.544 inches

MQF240U-12S ☐	240	160	12	20	13.3	92.5	120
MQF240U-15S ☐	240	160	15	16	10.667	92.5	150
MQF240U-24S ☐	240	160	24	10	6.66	93	240
MQF240U-48S ☐	240	160	48	5	3.33	94	480

Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple Noise (mV)
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Input Voltage:90~264 V.AC

- Built-in Fan

MQF240E Single Output (Enclosed Type) Size: 4.1 x 2.44 x 1.99 inches

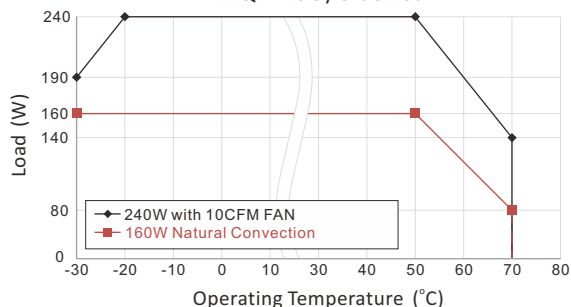
MQF240E-12S ☐	240	12	20	92	120
MQF240E-15S ☐	240	15	16	92	150
MQF240E-24S ☐	240	24	10	92.5	240
MQF240E-48S ☐	240	48	5	93	480

☐ :-A=A Type Terminal Block(All Series), -DRK=Din Rail Kit(MQF240O N/A)

Derating

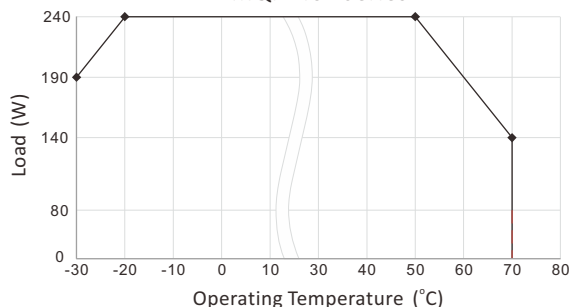
Output Load vs. Operating Temperature

MQF240O/U Series



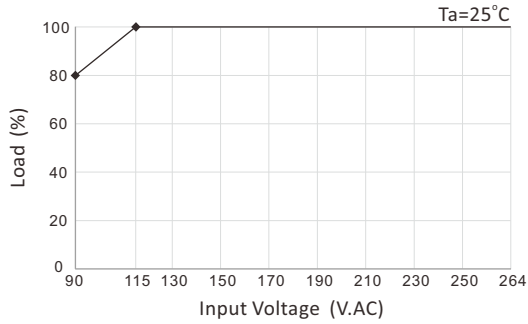
Output Load vs. Operating Temperature

MQF240E Series



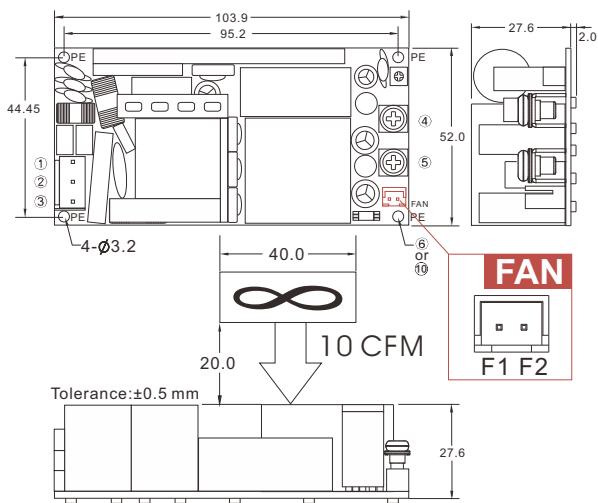
Derating

Load vs. Input Voltage
MQF240 Series

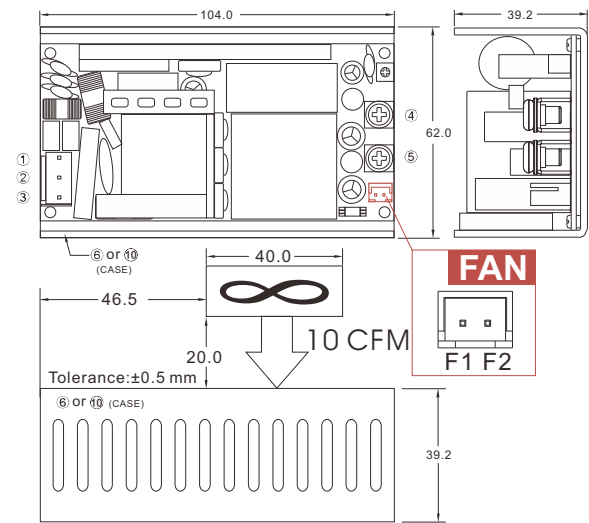


Outline Dimensions & Pin Connections

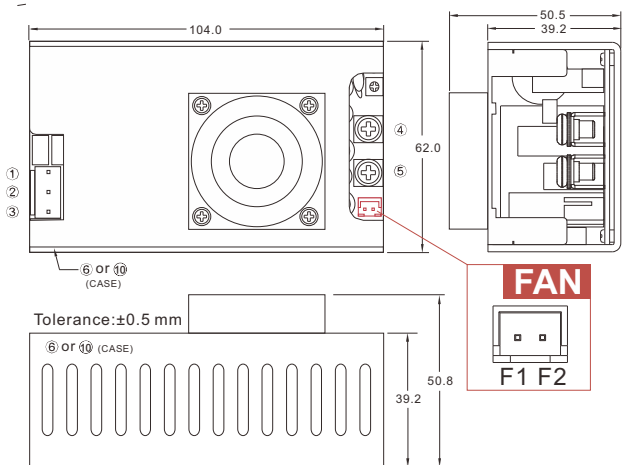
MQF2400



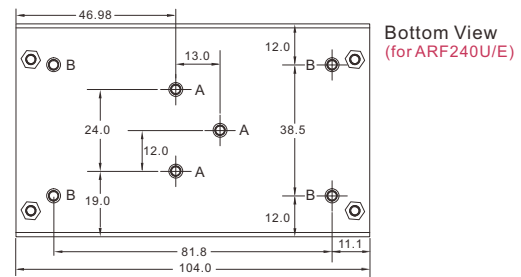
MQF240U



MQF240E



More Information



Standard Type



A Type



Tolerance:±0.5 mm

A= For fixture to chassis only

A=M3x0.5P

B=For fixture to pcb/chassis only

A,B=M3x0.5P

⑥ or ⑩=M3x0.5P

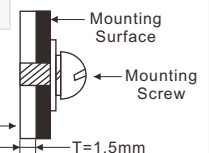
Torque:3±0.5 Kgf.cm

★Note.

Assembly Instructions

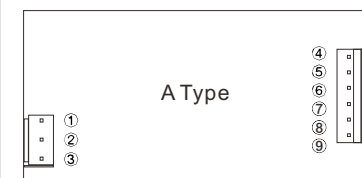
Customer is advised to screw into the threads no more than 1.5mm

Chassis of MQF240U /MQF240E Series



Connector Pin (FAN)

PIN#	Single
F1	+AUX OUT
F2	-AUX OUT



★ Note. Please refer to the types of terminal block (Page 98~99); the pictures shown are for illustration purpose only, actual product may vary.

PIN#	PIN#	Single
Standard	A Type	
1	1	AC IN (N)
2	2	NO PIN
3	3	AC IN (L)
4	4~6	+DC OUT
5	7~9	-DC OUT
6	10	PE



More Details

MQF500 SERIES

500W AC-DC Medical/ITE Switching Power Supply



Medical Switching PSU — MQF500

88



UL / IEC / EN 62368-1(15S meet)
IEC / EN 60601-1 3.2nd 2 x MOPP

E199779
E308218



Unified Selection Guide

ITE + Medical



Efficiency up to 93%



Operating Altitude 5000m (OVC II)



Built-in 12V/0.5A Fan Supply
(MQF500E N/A)



Standby 5V@1A with Fan,
@0.4A without Fan



With P.F.C. Function >0.94



Remote ON/OFF Function



Suitable for BF Application with
Appropriate System Consideration



I/O Isolation: 4000VAC



Current Share Function for Option
(15S N/A)



Din Rail Kit for Option (MQF2400 N/A)



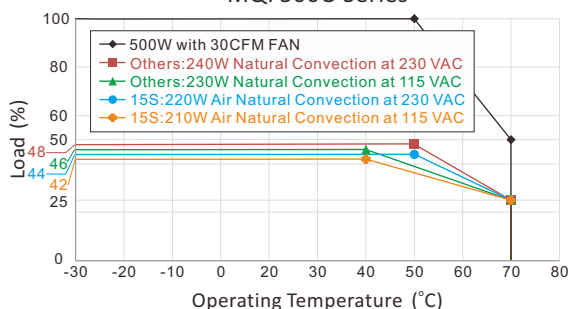
Protection:OPP / OVP / OTP / SCP

Model No.	Power (W)		O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple & Noise (mV)
		 115 / 230 Vin						
		115 Vin		230 Vin				
Input Voltage:90~264 V.AC				 - Natural Convection  - 30 CFM FAN				
MQF500O Single Output (Open Frame Type)				Size: 5.03 x 3.0 x 1.38 inches				
MQF500O-12S	500	230 / 240	12	41.5	19.16	20	90.5	160
MQF500O-15S	500	210 / 220	15	33.3	14	14.66	90.5	160
MQF500O-24S	500	230 / 240	24	20.8	9.58	10	92	240
MQF500O-48S	500	230 / 240	48	10.41	4.8	5	93	480
MQF500U Single Output (U Bracket Type)				Size: 5.5 x 3.25 x 1.6 inches				
MQF500U-12S 	500	190 / 200	12	41.5	15.83	16.6	90.5	160
MQF500U-15S 	500	170 / 180	15	33.3	11.33	12	90.5	160
MQF500U-24S 	500	190 / 200	24	20.8	7.91	8.33	92	240
MQF500U-48S 	500	190 / 200	48	10.41	3.96	4.17	93	480
Model No.	Power (W) 		O/P Volt. (V.DC)	Output Current (A)			EFF (%)	Ripple Noise (mV)
Input Voltage:90~264 V.AC				 - Built-in Fan				
MQF500E Single Output (Enclosed Type)				Size: 5.5 x 3.25 x 2.42 inches				
MQF500E-12S 	500		12	41.5			89	160
MQF500E-15S 	500		15	33.3			89	160
MQF500E-24S 	500		24	20.8			91	240
MQF500E-48S 	500		48	10.41			92	480

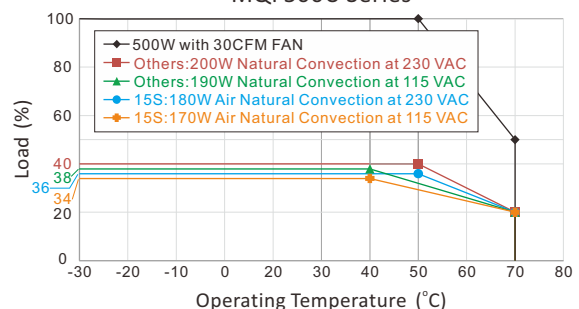
☐ :-DRK=Din Rail Kit(MQF500O N/A)

Derating

Output Load vs. Operating Temperature
MQF500O Series

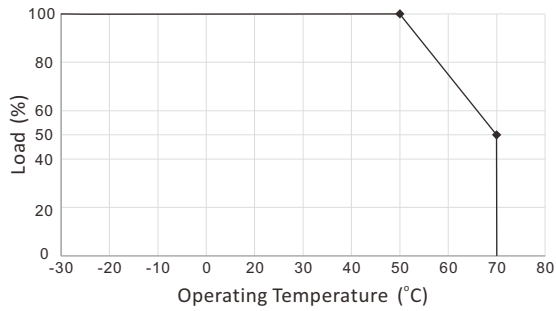


Output Load vs. Operating Temperature
MQF500U Series

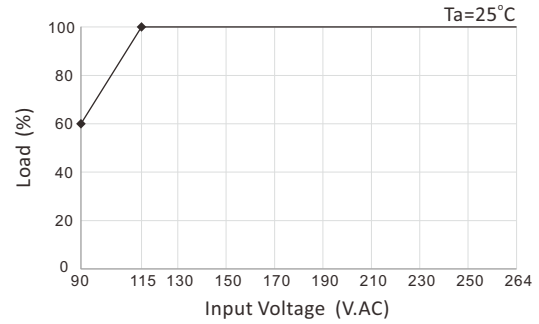


Derating

Output Load vs. Operating Temperature
MQF500E Series

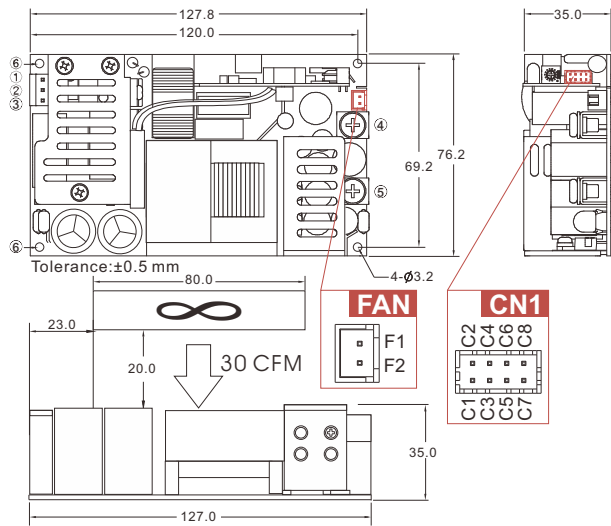


Load vs. Input Voltage
MQF500 Series



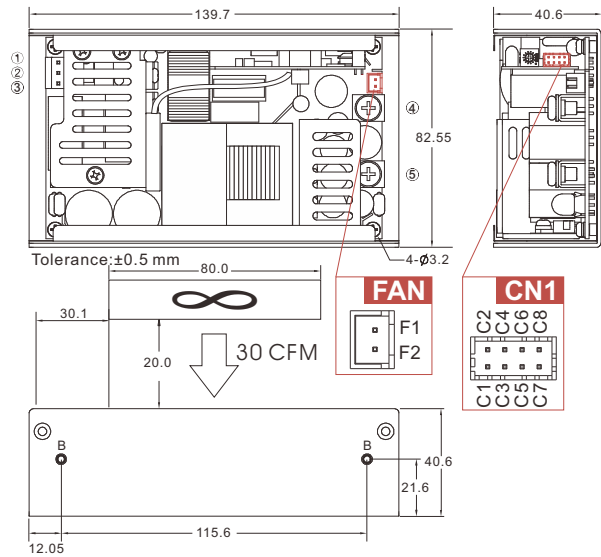
Outline Dimensions & Pin Connections

MQF5000



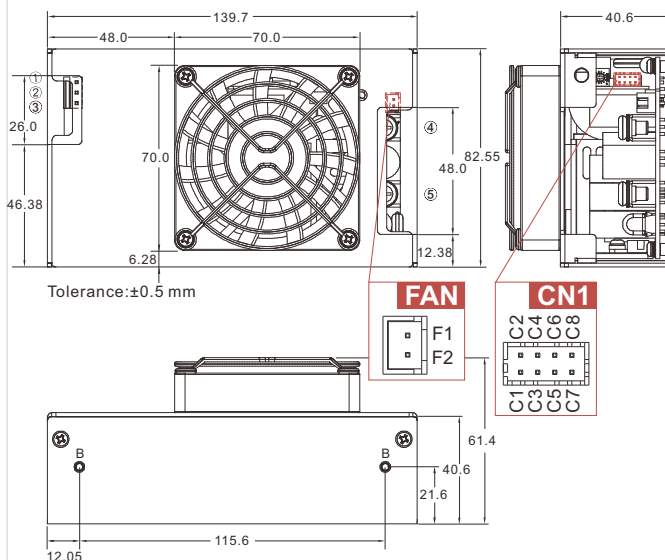
For more details for Terminal Block, please refer to the Page 98-99

MQF500U



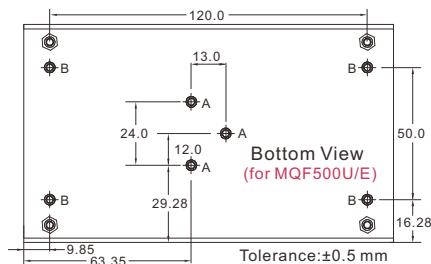
For more details for Terminal Block, please refer to the Page 98-99

MQF500U



For more details for Terminal Block, please refer to the Page 98-99

More Information

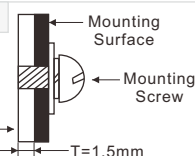


A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm

Assembly Instructions

Customer is advised to screw into the threads no more than 1.5mm

Chassis of MQF500U / MQF500E Series



PIN#	Single
1	AC IN (N)
2	NO PIN
3	AC IN (L)
4	+DC OUT
5	-DC OUT
6, A, B	PE

Connector Pin (FAN)

PIN#	Single
F1	+12V
F2	GND

Connector Pin (CN1)

PIN#	Single
C1	-5V SB
C2	+5V SB
C3	GND
C4	DC-OK
C5	-RC
C6	+RC
C7	-S
C8	+S



More Details

MQF700 / MQF700C SERIES

700W AC-DC Medical Switching Power Supply



Medical Switching PSU — MQF700(C)

90



UL / IEC / EN 62368-1(15S meet)
IEC / EN 60601-1 3.2nd 2 x MOPP

E199779
E308218



Unified Selection Guide



With P.F.C. Function >0.9



Efficiency up to 92%



Standby 5V@1A



I/O Isolation: 4000VAC



Current Share Function for MQF700C



Din Rail Kit for Option



Operating Temperature:
-30°C~+70°C with derating



Protection:OPP / OVP / OTP / SCP

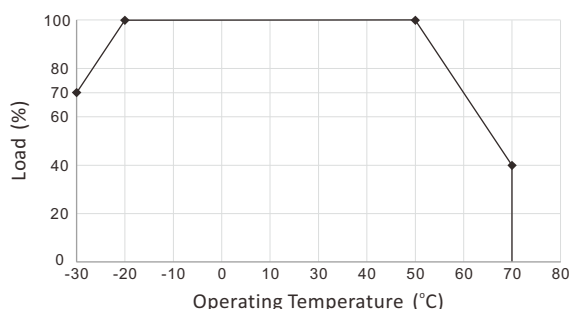
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
MQF700 Single Output (Enclosed Type)				Size: 6.7 x 3.66 x 1.61 inches		
MQF700-12S ☐	625	90~264	12	52.08	89	160
MQF700-15S ☐	625	90~264	15	41.66	90	160
MQF700-24S ☐	700	90~264	24	29.16	91	240
MQF700-28S ☐	700	90~264	28	25	92	280
MQF700-48S ☐	700	90~264	48	14.58	92	480
Model No.	Power (W)	I/P Volt. (V.AC)	O/P Volt. (V.DC)	Output Current (A)	EFF (%)	Ripple (mV)
MQF700C Single Output (Enclosed Type)				Size: 6.7 x 3.66 x 1.61 inches		
MQF700C-12S ☐	625	90~264	12	52.08	89	160
MQF700C-15S ☐	625	90~264	15	41.66	90	160
MQF700C-24S ☐	700	90~264	24	29.16	91	240
MQF700C-28S ☐	700	90~264	28	25	92	280
MQF700C-48S ☐	700	90~264	48	14.58	92	480

☐ :-DRK=Din Rail Kit

Derating

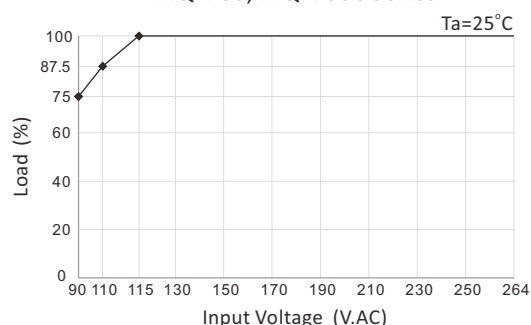
Output Load vs. Operating Temperature

MQF700, MQF700C Series



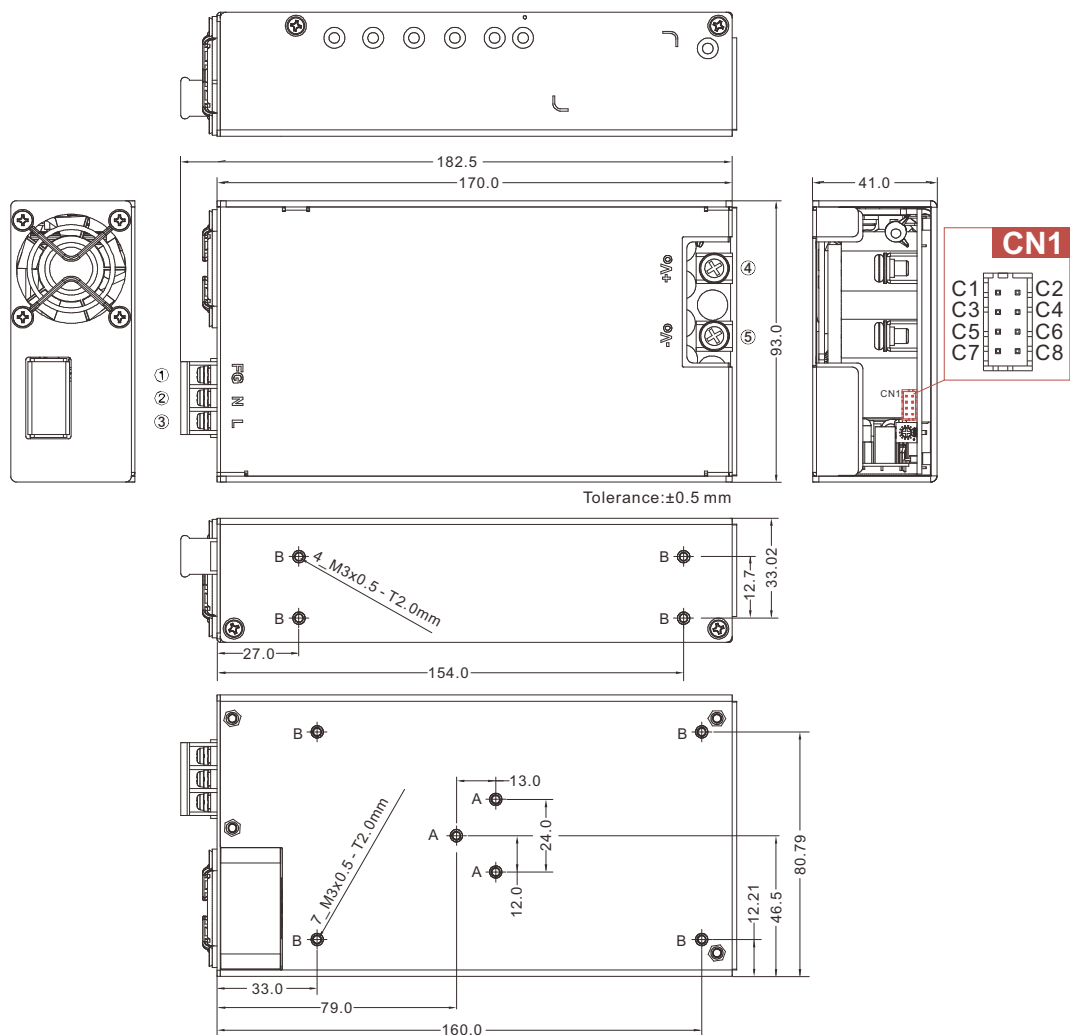
Load vs. Input Voltage

MQF700, MQF700C Series



Outline Dimensions & Pin Connections

MQF700, MQF700C



A= For fixture to chassis only
A=M3x0.5P
B=For fixture to pcb/chassis only
A,B=M3x0.5P
Torque:3±0.5 Kgf.cm
Input & output connectors tightening torque : 6 Kgf.cm

PIN#	Single
1	FG
2	AC IN (N)
3	AC IN (L)
4	+DC OUT
5	-DC OUT
A, B	PE

MQF700 Series Connector Pin (CN1)	
PIN#	Single
C1	+S
C2	-S
C3	NC
C4	-5V SB
C5	GND / -RC
C6	+RC
C7	PG
C8	+5V SB

MQF700C Series Connector Pin (CN1)	
PIN#	Single
C1	+S
C2	-S
C3	CS
C4	-5V SB
C5	GND / -RC
C6	+RC
C7	PG
C8	+5V SB

Assembly Instructions

Customer is advised to screw into the threads no more than 2.0mm

Chassis of MQF700 / MQF700C Series

Mounting Surface

Mounting Screw

T=2.0mm

For more details for Terminal Block, Please refer to the Page 98-99





BF06 SERIES

6W DC-DC Converter

NEW



Unified Selection Guide



No Load Power Consumption
0.12W (typ)



Wide Input Voltage range (4:1)



Remote ON/OFF Control for Option



I/O Isolation: 3000VDC



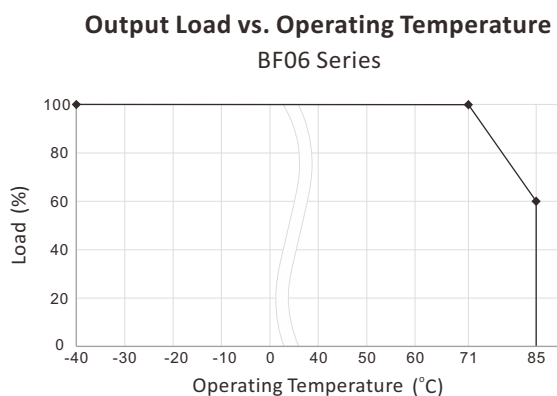
Wide Operating Temperature:
-40°C~+85°C with derating



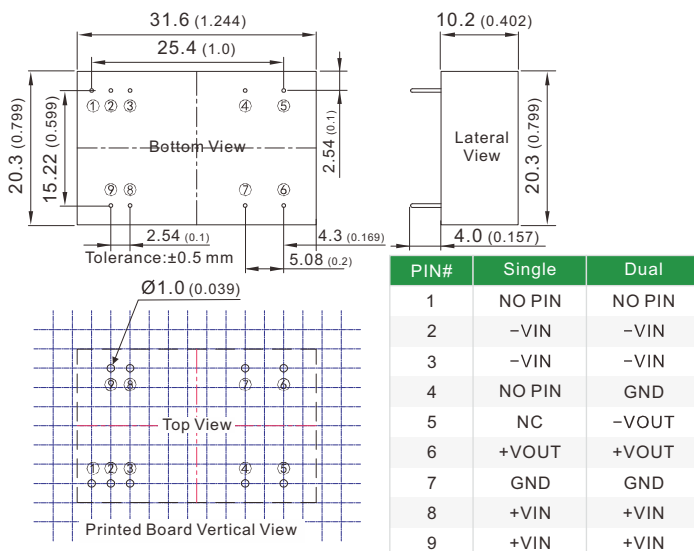
Protection:OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.DC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BF06 Single Output			Size: 1.244 x 0.799 x 0.402 inches			
BF06-24F-3.3S	6	9~36	3.3	1500	77	100
BF06-24F-5S	6	9~36	5	1200	83	100
BF06-24F-12S	6	9~36	12	500	85	100
BF06-24F-15S	6	9~36	15	400	86	100
BF06-24F-24S	6	9~36	24	250	86	100
BF06-48F-3.3S	6	18~75	3.3	1500	80	100
BF06-48F-5S	6	18~75	5	1200	84	100
BF06-48F-12S	6	18~75	12	500	87	100
BF06-48F-15S	6	18~75	15	400	88	100
BF06-48F-24S	6	18~75	24	250	87	100
BF06 Single Output			Size: 1.244 x 0.799 x 0.402 inches			
BF06-24F-5D	6	9~36	±5	±600	82	100
BF06-24F-12D	6	9~36	±12	±250	85	100
BF06-24F-15D	6	9~36	±15	±200	86	100
BF06-48F-5D	6	18~75	±5	±600	83	100
BF06-48F-12D	6	18~75	±12	±250	87	100
BF06-48F-15D	6	18~75	±15	±200	88	100

Derating



Outline Dimensions





BA10 SERIES

10W DC-DC Converter

NEW



EN 62368-1

DC-DC Converter — BA10

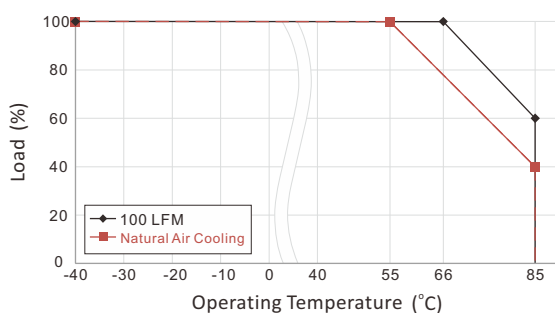
Unified Selection Guide

- Stand-by Power Consumption as Low as 0.05W
- Wide Input Voltage range (4:1)
- Output Fast Start Up
- Good EMI Performance
- I/O Isolation: 2250VDC
- Wide Operating Temperature: -40°C~+85°C with derating
- Protection: OCP / SCP

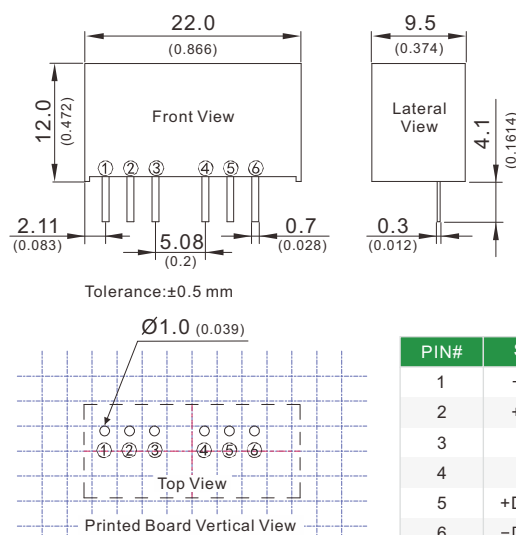
Model No.	Power (W)	I/P Volt. (V.DC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BA10 Single Output				Size: 0.87 x 0.37 x 0.472 inches		
BA10-24F-5S	10	9~36	5	2000	87	150
BA10-24F-12S	10	9~36	12	834	88	150
BA10-24F-15S	10	9~36	15	667	88	150
BA10-24F-24S	10	9~36	24	416	88	150
BA10-48F-5S	10	18~72	5	2000	87	150
BA10-48F-12S	10	18~72	12	834	88	150
BA10-48F-15S	10	18~72	15	667	88	150
BA10-48F-24S	10	18~72	24	416	88	150

Derating

Output Load vs. Operating Temperature
BA10 Series



Outline Dimensions



PIN#	Single
1	-DC IN
2	+DC IN
3	CTRL
4	NC
5	+DC OUT
6	-DC OUT



More Details

BC30 SERIES

30W DC-DC Converter

NEW



DC-DC Converter — BC30

94

Unified Selection Guide

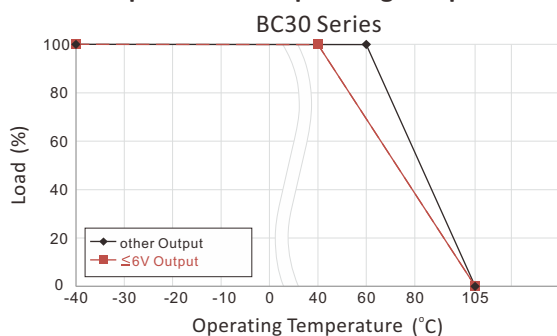
	Wide Input Voltage range (4:1)
	Efficiency up to 91% (typ.)
	Output Fast Start Up
	Good EMI Performance
	I/O Isolation: 1600VDC
	With Heat sink / Screw Terminal / DIN Rail Mounting Options
	Wide Operating Temperature: -40°C~+105°C with derating
	Protection: OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.DC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BC30 Single Output				Size: 1.0 x 1.0 x 0.492 inches		
BC30-24F-3.3S ☐	30	9~36	3.3	6000	87	100
BC30-24F-5S ☐	30	9~36	5	6000	88	100
BC30-24F-12S ☐	30	9~36	12	2500	90	100
BC30-24F-15S ☐	30	9~36	15	2000	90	100
BC30-24F-24S ☐	30	9~36	24	1250	90	100
BC30-48F-3.3S ☐	30	18~72	3.3	6000	87	100
BC30-48F-5S ☐	30	18~72	5	6000	88	100
BC30-48F-12S ☐	30	18~72	12	2500	91	100
BC30-48F-15S ☐	30	18~72	15	2000	91	100
BC30-48F-24S ☐	30	18~72	24	1250	90	100

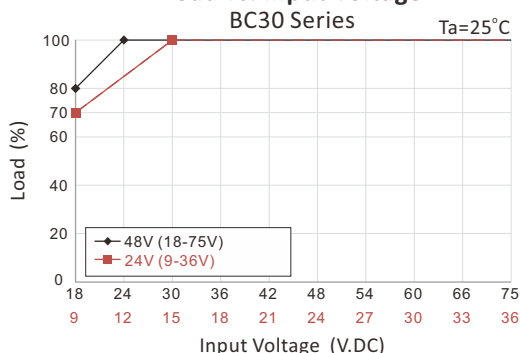
☐ :-X=With Heat Sink, -A2=Screw Terminal without Heat Sink,
 :-A2D=DIN Rail without Heat Sink, -XA2=Screw Terminal with Heat Sink,
 :-XA2D=DIN Rail with Heat Sink

Derating

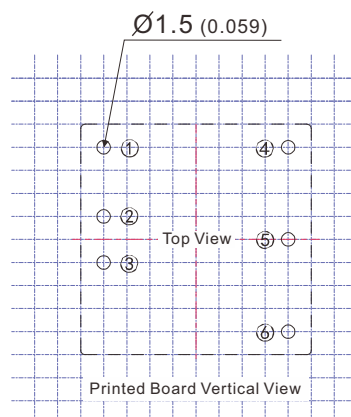
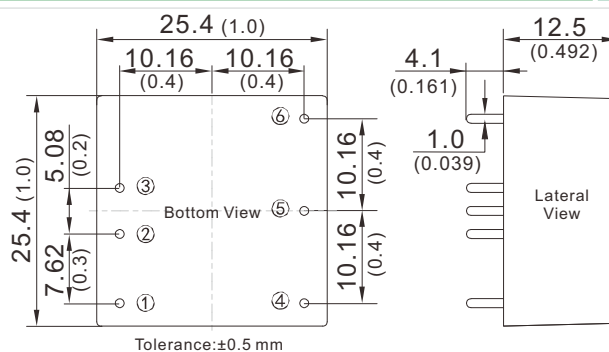
Output Load vs. Operating Temperature



Load vs. Input Voltage



Outline Dimensions



PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	TRIM
6	+DC OUT



BE60 SERIES

60W DC-DC Converter

NEW



CE
EN 62368-1

DC-DC Converter — BE60

Unified Selection Guide



Low Standby Power Consumption
0.7W (typ.)



Wide Input Voltage range (4:1)



Efficiency up to 93% (typ.)



Good EMI Performance



I/O Isolation: 1600VDC



With Heat sink / Screw Terminal /
DIN Rail Mounting Options



Wide Operating Temperature:
-40°C~+105°C with derating



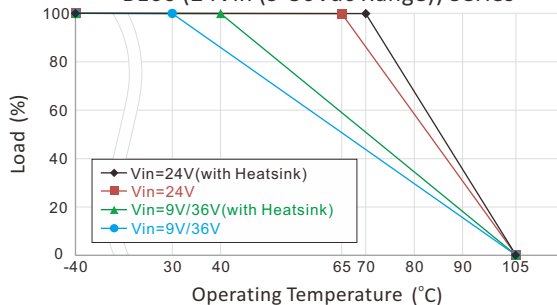
Protection: OCP / OVP / SCP

Model No.	Power (W)	I/P Volt. (V.DC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BE60 SINGLE OUTPUT Size: 2.0 x 2.0 x 0.464 inches						
BE60-24F-5S	60	9~36	5	12000	92	120
BE60-24F-12S	60	9~36	12	5000	93	120
BE60-24F-15S	60	9~36	15	4000	93	120
BE60-24F-24S	60	9~36	24	2500	93	150
BE60-48F-5S	60	18~75	5	12000	92	120
BE60-48F-12S	60	18~75	12	5000	93	120
BE60-48F-15S	60	18~75	15	4000	93	120
BE60-48F-24S	60	18~75	24	2500	93	150

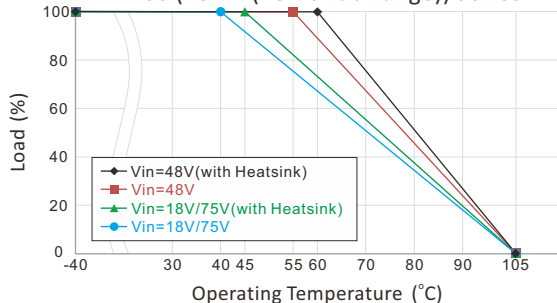
□ :-X=With Heat Sink, -A2=Screw Terminal without Heat Sink,
:-A2D=DIN Rail without Heat Sink, -XA2=Screw Terminal with Heat Sink,
:-XA2D=DIN Rail with Heat Sink

Derating

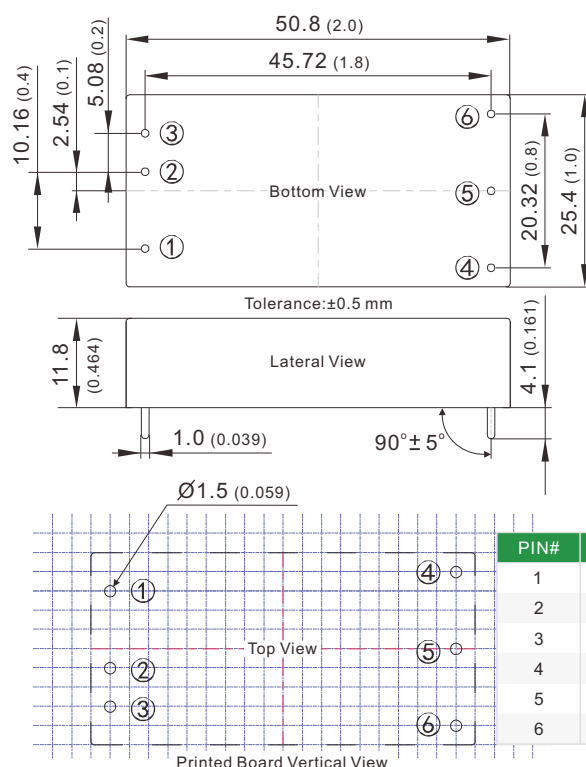
Output Load vs. Operating Temperature
BE60 (24Vin (9-36Vdc Range)) Series



Output Load vs. Operating Temperature
BE60 (48Vin (18-75Vdc Range)) Series



Outline Dimensions





BR78 SERIES

1A DC-DC Converter

NEW



EN 62368-1

DC-DC Converter — BR78

Unified Selection Guide



No Load Input Current
as Low as 0.2mA



Wide Input Voltage range



High Efficiency up to 96%



Non-Isolated &
Regulated Single Output



SIP-3 Package



Wide Operating Temperature:
-40°C~+85°C with derating



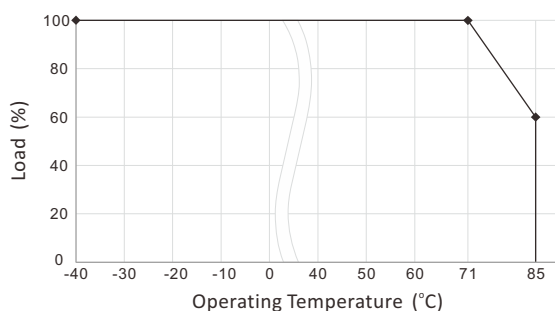
Protection:SCP

Model No.	Power (W)	I/P Volt. (V.DC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
BR78 Single Output				Size: 0.453 x 0.354 x 0.689 inches		
BR78-3.3S/1000	3.3	6~34	3.3	1000	90	75
BR78-5S/1000	5	8~34	5	1000	93	75
BR78-6.5S/1000	6.5	10~34	6.5	1000	93	75
BR78-9S/1000	9	13~34	9	1000	94	75
BR78-12S/1000	12	15~34	12	1000	95	75
BR78-15S/1000	15	20~34	15	1000	96	75

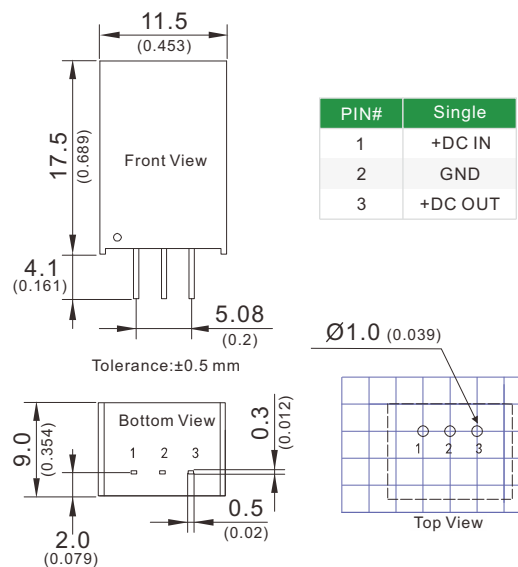
Derating

Output Load vs. Operating Temperature

BR78 Series



Outline Dimensions





HR78 SERIES

1A DC-DC Converter

NEW



EN 62368-1

DC-DC Converter — HR78

Unified Selection Guide

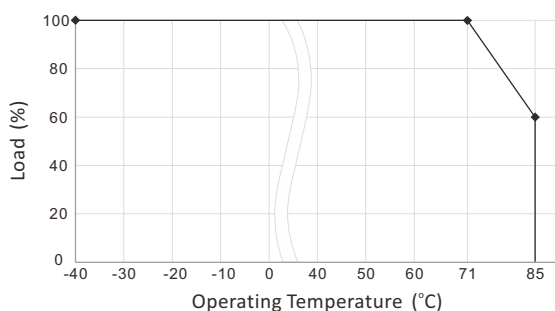
- No Load Input Current as Low as 0.2mA
- Wide Input Voltage range
- High Efficiency up to 96%
- Non-Isolated & Regulated Single Output
- SIP-3 Package
- Wide Operating Temperature: -40°C~+85°C with derating
- Protection:SCP

Model No.	Power (W)	I/P Volt. (V.DC)	O/P Volt. (V.DC)	Output Current (mA)	EFF (%)	Ripple (mV)
HR78 Single Output				Size: 0.457 x 0.297 x 0.4 inches		
HR78-3.3S/1000	3.3	6~36	3.3	1000	89	100
HR78-5S/1000	5	8~36	5	1000	93	100
HR78-6.5S/1000	6.5	10~36	6.5	1000	94	124
HR78-9S/1000	9	13~36	9	1000	94	180
HR78-12S/1000	12	16~36	12	1000	96	240
HR78-15S/1000	15	18~36	15	1000	96	300

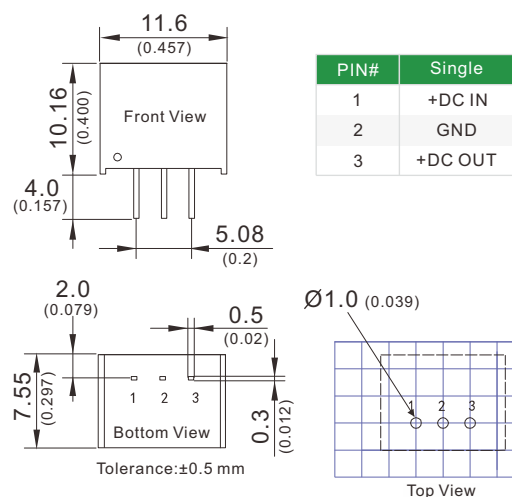
Derating

Output Load vs. Operating Temperature

HR78 Series



Outline Dimensions



Terminal Block

AC/DC Switching Power Supply AC Input Terminal Block

Series	Input Pin	AC IN			
		Brand	Connector	Mating Housing	Terminal
AQF40 , AQF65 , AQF80 ARF1300 / U / E BQF65 , BQF120 MQF1200 / U / E	 2 PIN	Alex	9397-3	9396-3	96T Series
		JST	B3P-VH	VHR-3N	Others:SVH-41T-P1.1 BQF65/120: SVH-21T-P1.1
ARF2200 / E ARF2400 / U / E ARF3200 / E ARFN500U / E MQF2400 / U / E		Alex	9397-3	9396-3	96T Series
		JST	B3P-VH	VHR-3N	SVH-41T-P1.1
ARF2200 / E-A (A Type) ARF2400 / U / E-A (A Type) ARF3200 / E-A (A Type) MQF2400 / U / E-A (A Type)		Alex	9397-3	9396-3	96T Series
		JST	B3P-VH	VHR-3N	SVH-41T-P1.1
MQF5000 / U / E		Alex	9397-3	9396-3	96T Series
		JST	B3P-VH	VHR-3N	SVH-41T-P1.1
AQF700 , AQF700C MQF700 , MQF700C	 3 PIN	ANYTEK	Terminal:YK-301-3P		
AQF1000 , AQF1000C ARF1300E / F	 3 PIN	DINKLE	Terminal:DT-49-B01W-03		
AQF1200-5S , AQF120U-5S, AQF120E-5S	 3 PIN	ANYTEK	Terminal:DG28S-B-03P		
AQF1200 / U / E-12S to 48S AQF240U-12S to 48S AQF240E AQF240E-12S24S					
AQF240U-5S					
AQF1200 / U / E-12S to 48S-A (A Type) AQF240U-12S to 48S-A (A Type)	 3 PIN	Alex	8673-05N2	8639-05N2 8095-05N2	23T or 24T Series 94T or 95T Series
		Molex	5273-05A	5195-05	5194T
SZA600 / U ARF7500 / E	 2 PIN	ANYTEK	Terminal:YK-312-2P		
AQF1200 / U / E-12S to 48S-B (B Type)	3 PIN	ANYTEK	Terminal:TI0324500010G		

AC/DC Switching Power Supply FAN and CN1 Terminal Block

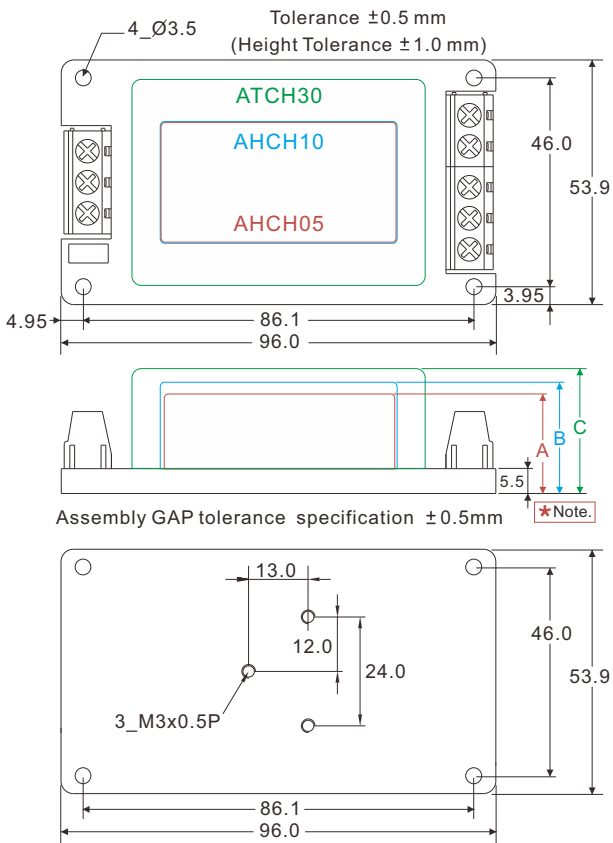
Series		Brand	Mating Housing	Terminal
ARF2400	 FAN	Chemg Weei	CX-H20-02	CP-T20B
		JST	PHR-2	SPH-002T-P0.5L
ARFN500U / E	 FAN	Alex	8821-2	8820T
		JST	XHR-2	SXH-002T-P0.6
MQF2400 / U / E FAN MQF2400 / U / E-A (A Type) MQF5000 / U / E	 FAN	Chemg Weei	CX-H250-02	CX-T2501
		JST	XHR-2	SXH-002T-P0.6
ARFN500U / E , MQF5000 / U / E , AQF700 , AQF700C , MQF700 , MQF700C , AQF1000 , AQF1000C ARF1300E / F	 CN1	Chemg Weei	PHD-H20-2X4P	PHD-T20
		JST	PHDR-08VS	SPH-001T-P0.5

AC/DC Switching Power Supply DC Output Terminal Block

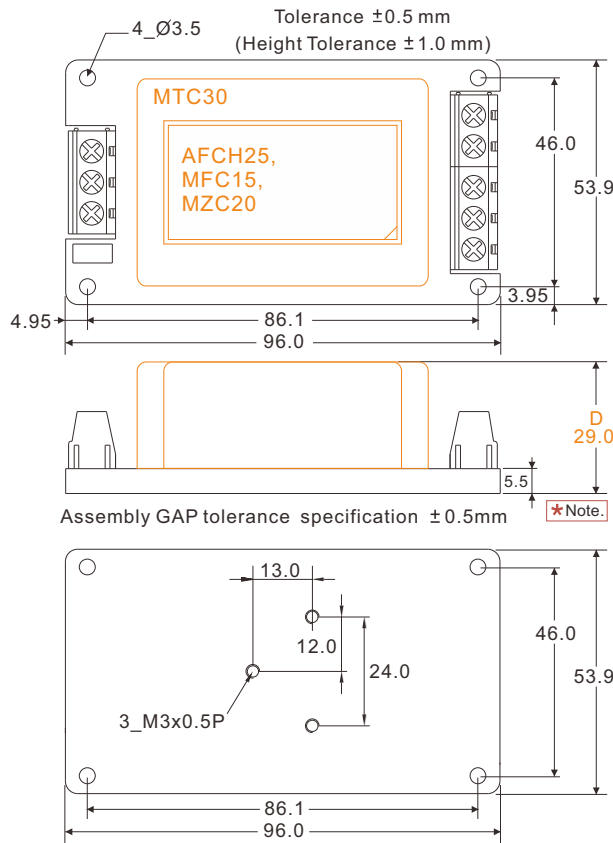
Series	Output Pin	DC OUT			
		Brand	Connector	Mating Housing	Terminal
AQF40 , AQF65 , AQF80 ARF130O / U / E BQF65 , BQF120 MQF120O / U / E	 4 PIN	Alex	9397-4	9396-4	96T Series
		JST	B4P-VH	VHR-4N	Others:SVH-41T-P1.1 BQF65/120: SVH-21T-P1.1
ARF220O / E ARF240O / U / E ARF320O / E ARFN500U / E MQF240O / U / E	 2 PIN	Terminal: M3.5 Pan HD screw in 2 positions / Torque to 8 lbs-in(90 cNm) max.			
ARF220O / E-A (A Type) ARF240O / U / E-A (A Type) ARF320O / E-A (A Type) MQF240O / U / E-A (A Type)	 6 PIN	Alex	9397-6	9396-6	96T Series
		JST	B6P-VH	VHR-6N	SVH-41T-P1.1
MQF500O / U / E	 2 PIN	Terminal: M5 Pan HD screw in 2 positions / Torque to 8 lbs-in(90 cNm) max.			
AQF700 , AQF700C MQF700 , MQF700C					
AQF1000 , AQF1000C ARF750O / E , ARF1300E / F					
AQF120O-5S , AQF120U-5S, AQF120E-5S					
AQF120O / U / E-12S to 48S AQF240U-12S to 48S AQF240E AQF240E-12S24S	 4 PIN	AYTEK	Terminal:DG28S-B-04P		
AQF240U-5S	 4 PIN	Terminal: M5 Pan HD screw in 2 positions / Torque to 8 lbs-in(90 cNm) max.			
AQF120O / U / E-12S to 48S-A (A Type) AQF240U-12S to 48S-A (A Type)	 8 PIN	Alex	8673-08N2	8639-08N2 8095-08N2	23T or 24T Series 94T or 95T Series
		Molex	5273-08A	5195-08	5194T
SZA600 / U	 2 PIN	ANYTEK	Terminal:YK-312-2P		
AQF120O / U / E-12S to 48S-B (B Type)	 4 PIN	DINKLE	Terminal:DT-128V-1711-04P3		

Screw Terminal-AC/DC Power Module (A2 / A2-DN)

AHCH05, AHCH10, ATCH30 Series



AFCH25, MFC15, MZC20, MTC30 Series



AHCH05, AHCH10



PIN#	Single
1	NC
2	AC IN (N)
3	AC IN (L)
4	NC
5	+DC OUT
6	-DC OUT
7	NC
8	NC

NC=NO CONNECT

AFCH25, MFC15, MZC20



PIN#	Single
1	NC
2	AC IN (L)
3	AC IN (N)
4	NC
5	+DC OUT
6	-DC OUT
7	NC
8	NC

NC=NO CONNECT

ATCH30



PIN#	Single
1	NC
2	AC IN (N)
3	AC IN (L)
4	NC
5	-DC OUT
6	NC
7	+DC OUT
8	NC

NC=NO CONNECT

MTC30



PIN#	Single
1	AC IN (N)
2	NC
3	AC IN (L)
4	NC
5	-DC OUT
6	NC
7	+DC OUT
8	NC

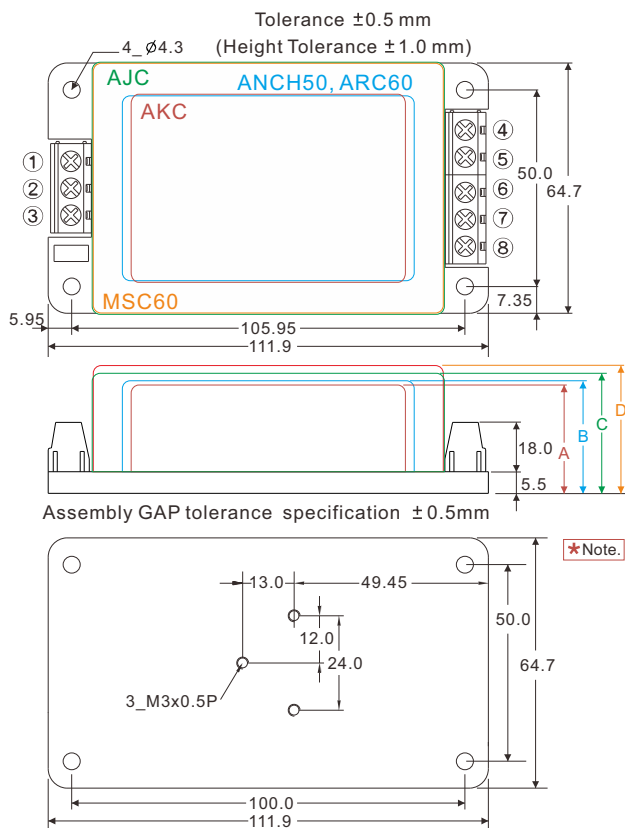
NC=NO CONNECT

★Note.

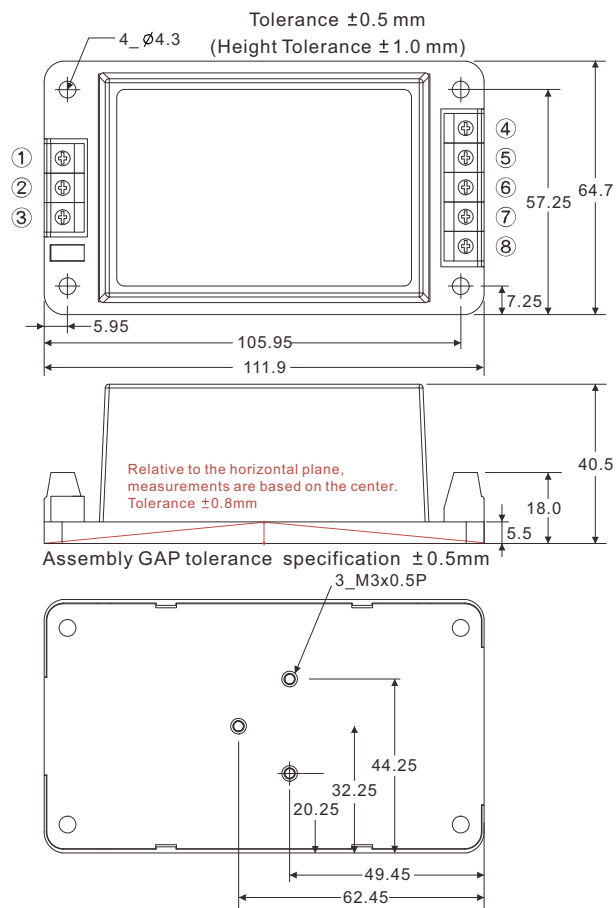
Code	Series	Height
A	AHCH05	22.01
B	AHCH10	24.5
C	ATCH30	27.2
D	AFCH25, MFC15, MZC20, MTC30	29.0

Unit:mm

AKC, AJC, ANCH50, ARC60, MSC60 Series



MQCS100 Series



AKC



PIN#	Single	Dual	Triple
1	FG	FG	FG
2	AC IN (N)	AC IN (N)	AC IN (N)
3	AC IN (L)	AC IN (L)	AC IN (L)
4	NC	NC	-DC OUT
5	-DC OUT	-DC OUT	COMMON
6	NC	COMMON	+DC OUT
7	+DC OUT	+DC OUT	+5V RTN
8	NC	NC	+5V OUT

NC=NO CONNECT

ANCH50, ARC60



PIN#	Single
1	NC
2	AC IN (N)
3	AC IN (L)
4	NC
5	-DC OUT
6	NC
7	+DC OUT
8	NC

NC=NO CONNECT

AJC



PIN#	Single	Dual	5S12S 5S24S
1	NC	NC	NC
2	AC IN (L)	AC IN (L)	AC IN (L)
3	AC IN (N)	AC IN (N)	AC IN (N)
4	+DC OUT	+DC OUT	+OUT2
5	NC	NC	+OUT1
6	-DC OUT	COMMON	+OUT2 RTN
7	NC	NC	+OUT1 RTN
8	NC	-DC OUT	NC

NC=NO CONNECT

MSC60



PIN#	Single
1	AC IN (L)
2	NC
3	AC IN (N)
4	+DC OUT
5	NC
6	-DC OUT
7	NC
8	NC

NC=NO CONNECT

MQCS100



PIN#	Single
1	PE
2	AC IN (N)
3	AC IN (L)
4	NC
5	ON / OFF
6	+DC OUT
7	-DC OUT
8	TRIM

NC=NO CONNECT

★Note.

Code	Series	Height
A	AKC	27.5
B	ANCH50 ARC60	28.6
C	AJC	30.1
D	MSC60	33.1

Unit:mm

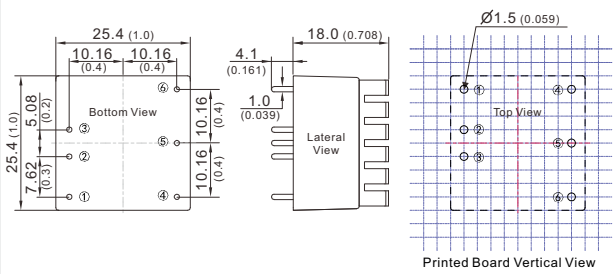
NC=NO CONNECT

Screw Terminal-DC/DC Convrtter (X / A2 / A2D / XA2 / XA2D)

BC30-X Series



Outline Dimensions



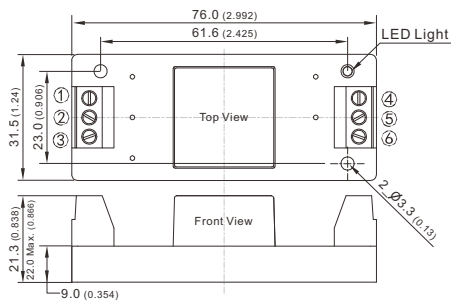
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	TRIM
6	+DC OUT

BC30-A2 Series



Outline Dimensions



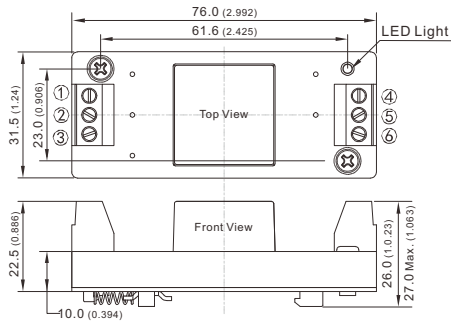
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	TRIM
6	+DC OUT

BC30-A2D Series



Outline Dimensions



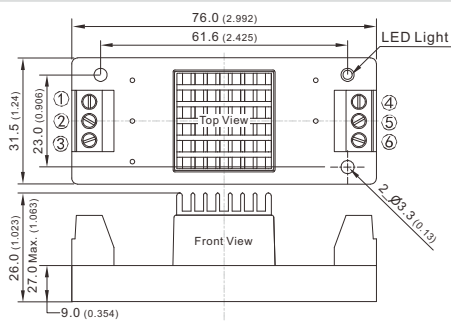
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	TRIM
6	+DC OUT

BC30-XA2 Series



Outline Dimensions



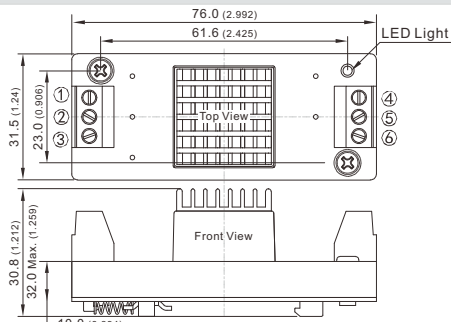
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	TRIM
6	+DC OUT

BC30-XA2D Series



Outline Dimensions



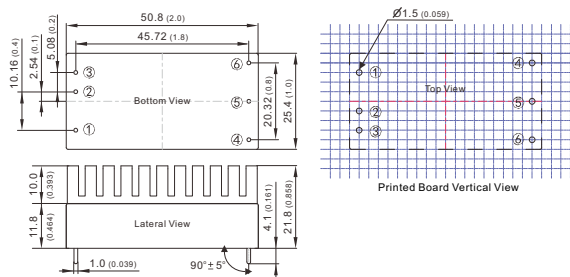
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	TRIM
6	+DC OUT

BE60-X Series



Outline Dimensions



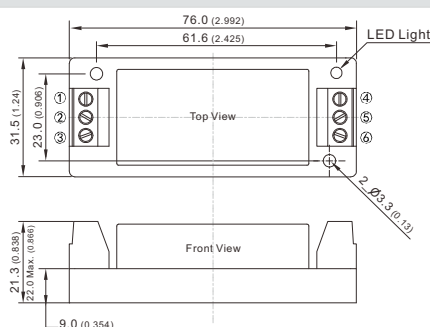
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT

BE60-A2 Series



Outline Dimensions



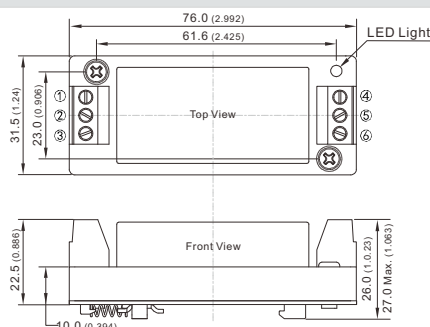
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT

BE60-A2D Series



Outline Dimensions



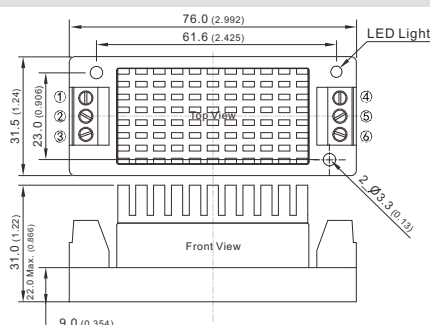
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT

BE60-XA2 Series



Outline Dimensions



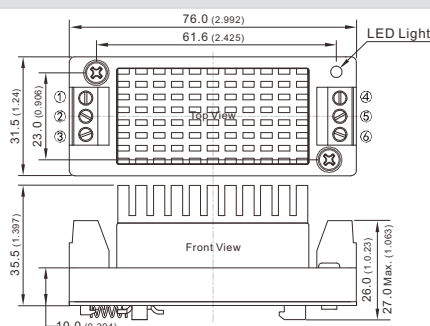
Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT

BE60-XA2D Series



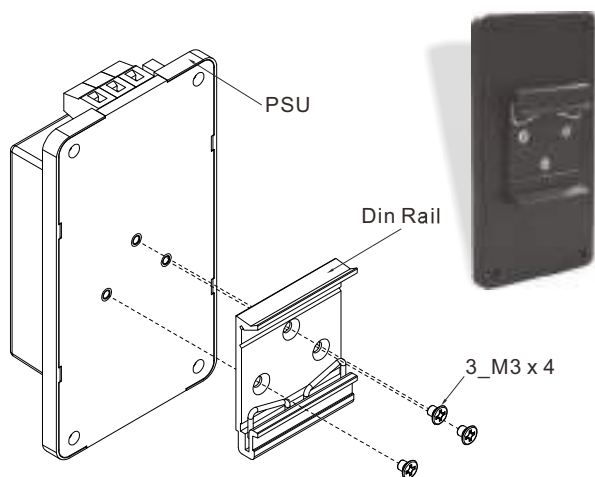
Outline Dimensions



Pin Connections

PIN#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT

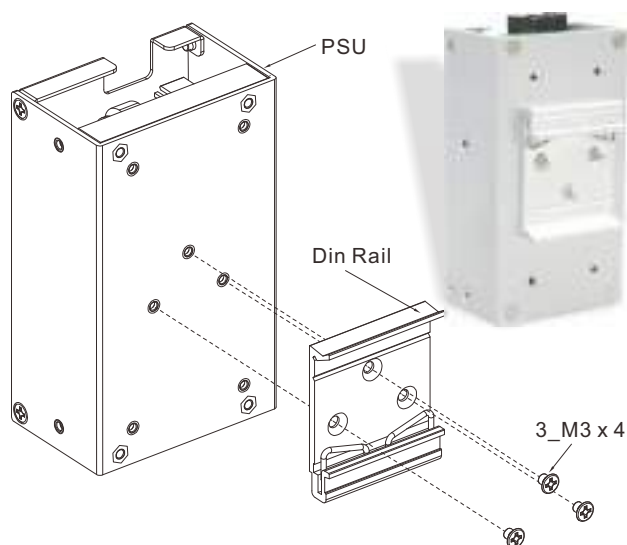
AC/DC Power Module



For Example: ANCH50-A2-DN, AFCH25-A2-DN



AC/DC Switching Power Supply



For Example :SZA60U-DRK, ARF240U-DRK



Warranty

All Arch products are guaranteed in 3 years from the date of the shipment, Customers may consider return for credit or exchange, please contact Arch for further information.
Any product problem please contact sales contact for failure analysis or RMA form if required.

Attention

Information furnished by ARCH is believed to be accurate and reliable. If there is any discrepancy between the data displayed in the catalogue and the specification sheets, the specification sheets in PDF file posted on ARCH's website www.archcorp.com.tw should prevail.

For continuing product improvement, ARCH reserves the right to revise any information in the catalogue and specification sheets without any prior notification.



Inquiry for Modified Standard Power Supply

Company :

公司名稱 :

Division :

部門 :

Address :

地址 :

Name :

姓名 :

Title :

職稱 :

Country / City :

E-mail :

TEL :

FAX :

MECHANICAL CONSTRUCTIONS

☐ AC/DC Converter

☐ DC/DC Converter

☐ Switching Power Supply

☐ AC EMI Filter

☐ Encapsulated

☐ Enclosed Type

☐ Open Frame Type

☐ U Bracket Type

Mechanical Dimensions (max.) : L _____ W _____ H _____

☐ mm ☐ inches

INPUT SPECIFICATIONS

Input Voltage ☐ _____ ~ _____ V.AC

Frequency _____ ~ _____ Hz

☐ _____ ~ _____ V.DC

Input / Output Isolation : ☐ YES Isolation : _____ ☐ V.AC ☐ V.DC ☐ NO

OUTPUT SPECIFICATIONS

		Output 1 ☐ OVP	Output 2 ☐ OVP	Output 3 ☐ OVP	Output 4 ☐ OVP
Voltage (V)					
Current nom. (A)	Min.				
	Max.				
Load Regulation (%)					
Ripple & Noise pk-pk (mV)					

Protection : ☐ Over Current

☐ Over Voltage (OVP)

☐ Over Power

☐ Short Circuit

ELECTRONICAL SPECIFICATIONS

Operation Temperature : _____ to _____ °C

Storage Temperature : _____ to _____ °C

Temperature Coefficient : _____ % / °C

Trim : ☐ YES ☐ NO

Remote ON / OFF Control : ☐ YES ☐ NO

Efficiency : _____ %

EMI / RFI Standard(s) : _____

Safety Standard(s) : _____

QUANTITIES : Prototype _____

Pre-Production _____

Production _____ / year

SCHEDULE : Prototype _____

Pre-Production _____

Production _____ / year

TARGET PRICE : _____ (Production Quantity)

ADDITIONAL REQUIREMENTS :

General

The following terms and conditions, any price list or schedule, catalog, quotation, or invoice from Seller relevant to the sale of the Products and/or Services by Seller to Buyer. Buyer's acceptance of the Product and/or Services will manifest Buyer's assent to these terms and conditions. If Seller and Buyer have a written agreement in effect that covers the sale of the Product and/or Services, that agreement will govern the terms and conditions of sale exclusively.

Orders

All orders are subject to product availability and acceptance by Seller. All orders must have scheduled delivery dates. Any purchase order with a balance is unscheduled will be subject to Seller's standard lead-time.

Prices

Prices in general are dependent on volume of the particular items purchased, terms of payment, and the credit worthiness of the Buyer, and are subject to change without prior notice.

Delivery

All orders are ex-work shipping point, all shipping costs and insurance, as applicable, shall be added to the purchase price and shall be paid by the Buyer. Unless otherwise instructed by Buyer, Seller will exercise its own judgment in the method of shipment.

Reschedule for Standard Products only

Products scheduled to ship within 30 days may be rescheduled. All standard products must be taken within 60 days of the original scheduled date. Once an originally scheduled date is rescheduled, it may not be rescheduled again.

Order Cancellation

- a. Special / Modified products: no cancellation will be allowed (100% cancellation fee)
- b. Standard products:
 - I. No charge within 3 days of the ordering day
 - II. 20% cancellation fee will be charged within 7 days of the ordering day
 - III. 30% cancellation fee will be charged within 15 days of the ordering day
 - IV. 50% cancellation fee will be charged within 30 days of the ordering day

Limited Warranty, Limitation Of Liability and Remedy

- a. **Limited Warranty and Remedy.**

Except as provided herein, seller expressly excludes and disclaims all warranties, expressed or implied including, without limitation, any implied warranty of merchantability or fitness for a particular purpose; and the warranty which follows in lieu of any and all other obligations or liability on seller's part. Seller warrants that it will repair or replace, at Seller's option, for any defective product because of defects in material, workmanship, which defect is discovered within warranty. This limited warranty does not extend to conditions causing the defect by Buyer such as misuse; neglect; improper installation; improper operation; inadequate maintenance, repair or alteration of the product; or unusual deterioration or damage to the product due to environment where used. Nor does said warranty cover accidental damage to the product.

For this warranty to apply

 - I. the products should be in warranty
 - II. the products shall be installed, used and maintained according to Seller's instructions and guidelines, if any, and
 - III. no modification to the products shall be made after shipment without written authorization from Seller.
- b. **Limitation of Liability.**

Under no circumstances will seller be liable for any incidental or consequential damages, or for any other loss, damage or expense of any kind, including loss of profits, arising in connection with this contract or with the use of or inability to use seller's products furnished under this contract. seller's maximum liability shall not exceed and buyer's remedy is limited to repair or replacement of the defective part of product.
- c. **Return of Product to Seller.**

Seller must be contacted and issue a return material authorization (RMA) Number prior to any product return, to assure receipt and proper credit. Any order returned to the Seller without an approved RMA Number will not be accepted.

RMA (Buyer should follow below procedure to return defective goods)

- a. Buyer must notify Seller in writing within the warranty period of any defect or nonconformance in the goods, by completing Seller's Return Merchandise Application form (RMA).
- b. Buyer must obtain authorized and an RMA number from Seller to return the defective goods.
- c. Buyer must pay for one-way shipping costs, additionally, acceptance of returned goods are subject to Seller's examination of such goods, or verify that the defect or nonconformance or difficulty was not in any way caused the negligence, improper installation, misuse or unauthorized repair of the goods. Seller may refuse acceptance of returned goods that do not follow this procedure.

Attention

- a. Customer should compensate, protect and ensure ARCH away from the following jeopardy: All and any kind of obligation, loss, expense, lien, claim, etc. caused by negligence or misconduct of customer, and his team member, agent, employee, contractor or assignee.
- b. We do best to ensure the exactness of information on the catalog. If there's any discrepancy in the specification sheet & catalog, the former should be given precedence over all others.
- c. For continuous product improvement, ARCH reserves the right to revise any information on catalog & specification sheet without any prior notice.
- d. It is strongly recommended that customers conduct sample testing for evaluation and approval before placing a for mail order.



<https://www.archcorp.com.tw>



ARCH Website



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YouTube



DigiKey

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