AQF240U Series

240 W AC/DC Switching Power Supply

CoolPower Solutions

KEY FEATURES

- U Bracket Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- Free Air Convection
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size: 6.0 x 4.18 x 1.38 Inches
- 3-Years Product Warranty



E199779 LEVEL3

ELECTRICAL SPECIFICATIONS

Model No.		AQF240 U-5S	AQF240 U-12S	AQF240 U-15S	AQF240 U-24S	AQF240 U-28S	AQF240 U-36S	AQF240 U-32S	AQF240 U-48S
Max Output Wattage (W)		180W	240W						
Input	Voltage	90-264 VAC or 120-370 VDC							
	Frequency (Hz)	47-63 Hz							
	Current (Full load)	<3.0 A max. (115 VAC) / <1.5 A max. (230 VAC)							
	Inrush Current (<2ms)	< 30 A max. (115 VAC) / < 60 A max. (230 VAC)							
	Leakage Current	< 0.5 mA max.							
	Power Factor	PF>0.98 (115 VAC) / PF>0.95 (230 VAC) at Full Load							
Output	Voltage (V.DC.)	5V	12V	15V	24V	28V	36V	32V	48V
	Voltage Accuracy	±2%							
	Current (Convection) (A) max	36	20	16	10	8.57	6.66	7.5	5
	Line Regulation	±1%							
	Load Regulation	±1%							
	Minimum Load	5%	1%						
	Maximum Capacitive Load	470-23,000μF depending on model							
	Ripple & Noise (max.)	150mVp-p	120mVp-p	200mVp-p					
	Efficiency (typ.)	87%	90%	90%	92%	92%	92%	92%	93%
	Hold-up Time	13 ms min.							
Protection	Over Power Protection	Auto recovery							
	Over Voltage Protection	Latch Off							
	Short Circuit Protection	Latch Off							
Isolation	Input-Output (V.AC)	4000V							
	Input-FG (V.AC)	2000V							
	Output-FG (V.AC)	500V							
Environment	Operating Temperature	-10°C…+70°C (with derating)							
	Storage Temperature	-25°C…+85°C							
	Temperature Coefficient	±0.03%/°C (0~50°C)							
	Humidity	95% RH							
	MTBF	>50,000 h @ 25°C (MIL-HDBK-217F)							
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.							
Physical	Dimension (L x W x H)	5S: 6.0 x 4.18 x 1.46 Inches (150.0 x 106.0 x 37.0 mm) Tolerance ±0.5 mm							
		Others: 6.0 x 4.18 x 1.38 Inches (150.0 x 106.0 x 35.0 mm) Tolerance ±0.5 mm							
	Weight	580 g							
	Cooling Method	Free convection							
Safety	Agency Approvals	CE, UL60950(except 5S), CB(except 5S)							
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B							
	EMS (Noise Immunity)	EN 55024							

1.All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1UF & 47UF parallel capacitor.

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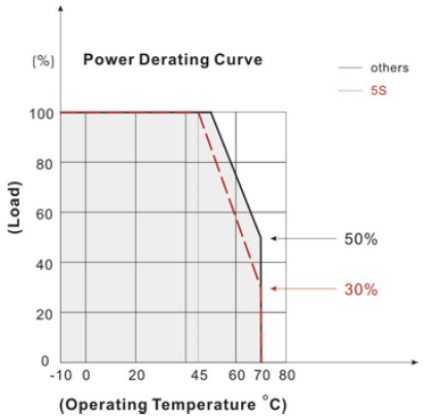
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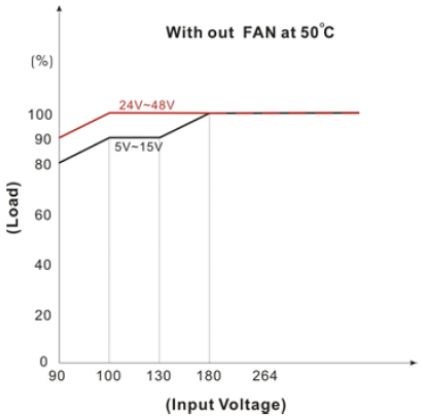
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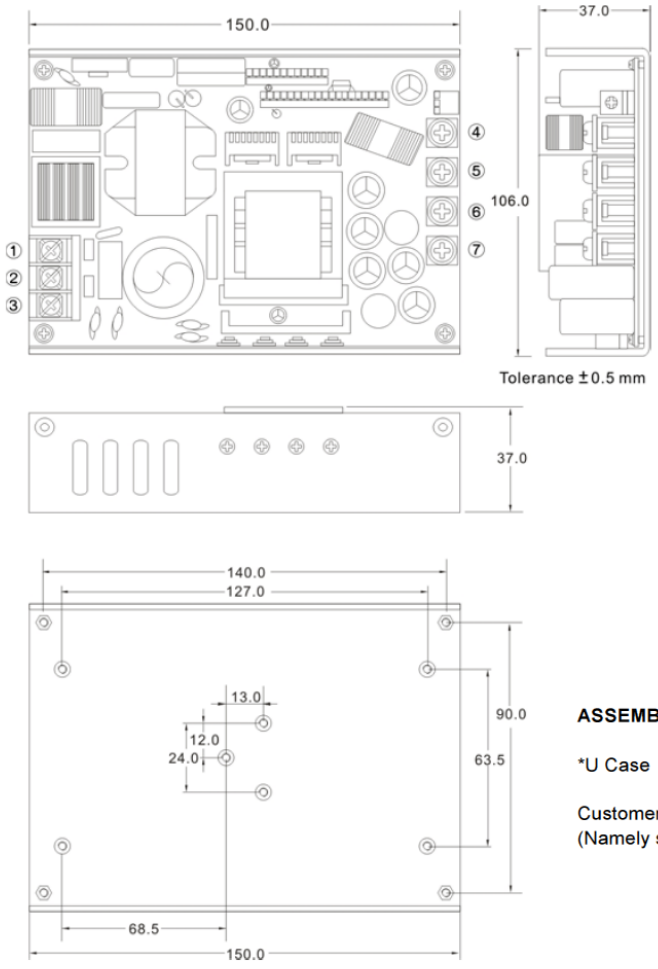
DERATING





MECHANICAL DIMENSION (Top View)

Standard (5S)





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

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm

Customer screws into the length of the case no higher than 0.5mm
(Namely screw length for load plate thickness plus 2.5mm

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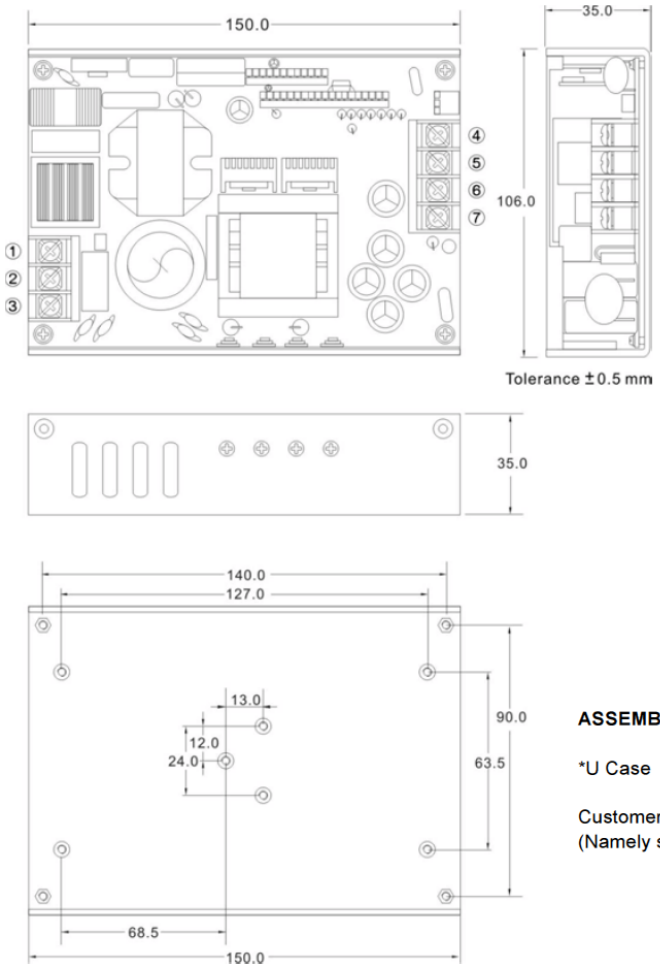
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Standard (12S、15S、24S、28S、32S、48S)







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

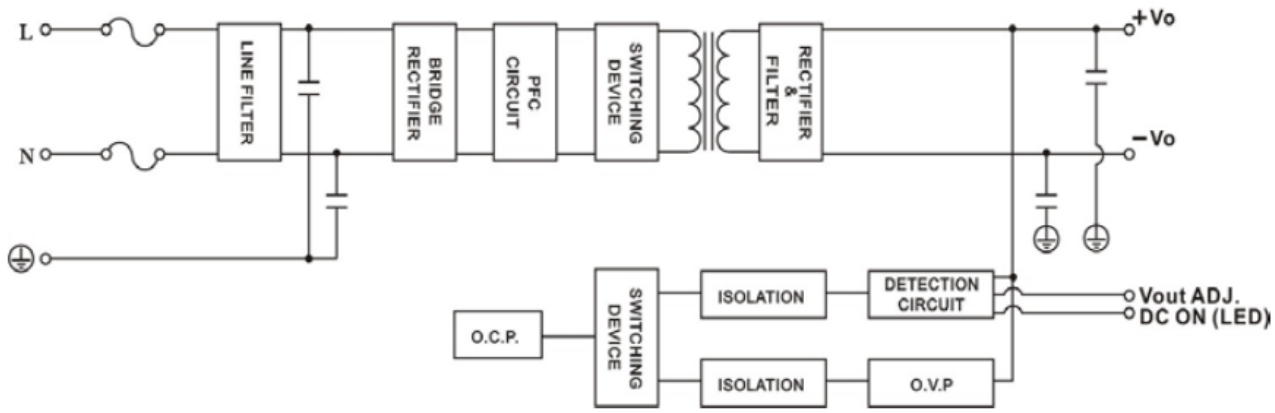
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DERATING

Single Output



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