

AQF240U Series

240 W AC/DC Switching Power Supply – U Bracket

CoolPower
Solutions

- 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%
- Ultra Compact Size: 6.0 x 4.21 x 1.42 Inches
- 2-Years Product Warranty

PRELIMINARY



Electrical specifications

Model No.	AQF240U-12S	AQF240U-24S	AQF240U-48S		
Max Output Wattage (W)	240W	240W	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.)		12V	24V	48V
	Voltage Accuracy				±2%
	Current (Convection) (A) max		20	10	5
	Line Regulation				±1%
	Load Regulation				±1%
	Minimum Load				0%
	Maximum Capacitive Load				470-23,000µF depending on model
	Ripple & Noise				1% max.
	Efficiency (typ.)		90%	93%	92%
	Hold-up Time				16 ms min.
	Switching Frequency				100 kHz
Protection	Over Power Protection		Auto recovery		
	Over Voltage Protection		Latch Off		
	Short Circuit Protection		Auto recovery		
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)				6.0 x 4.21 x 1.42 Inches (150.0 x 107 x 36.0 mm) Tolerance ±0.5 mm
	Weight				590 g
	Cooling Method				Free convection
Safety & EMC	Safety Approvals		UL60601-1 / IEC60601-1		
	approval		CE, UL, cUL		

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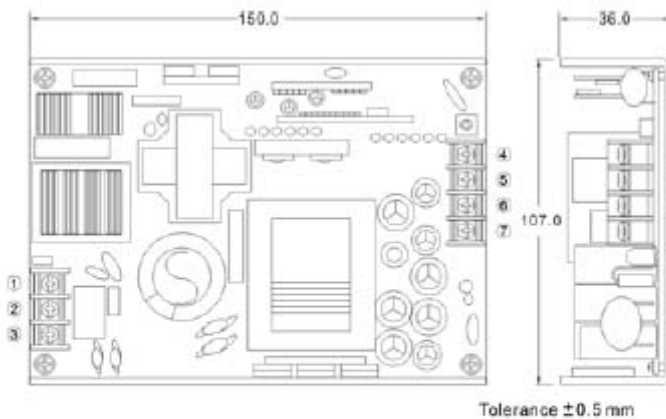
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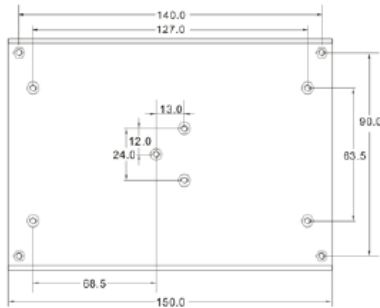
Safety & EMC	EMI / PFI conducted	EN 55011 class B, EN 55022 class B
	EMC Standards	EN60601-1-2
	ESD Susceptibility	EN60601-1-2
	Radiated Susceptibility	EN60601-1-2
	EFT / Burst	EN60601-1-2
	Surge	EN60601-1-2
	Conducted Susceptibility	EN60601-1-2

- All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
- Ripple & Noise are measured at 20MHz of bandwidth with 0.1µF & 47µF parallel capacitor.

Mechanical Specifications (top view)

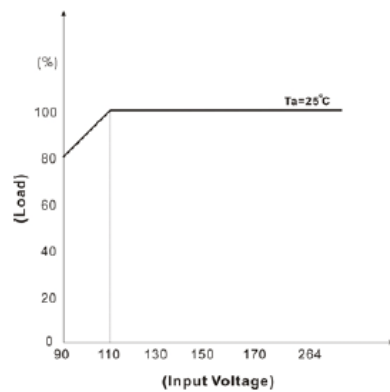


Pin no:	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT



wer
ONS

DERATING



BLOCK DIAGRAM

