ARCH ELECTRONICS CORP.

AC-DC Switching Power Supply

AQF240D SERIES 240 Watts

KEY FEATURES

- Enclosed 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
- 2-Years Product Warranty



E199779 LEVEL3

ELECTRICAL SPECIFICATIONS

Model No.		AQF240D-12S	AQF240D-24S	AQF240D-48S
Max Output Wattage (W)		200W	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	16.66	10	5
	Line Regulation	±1%		
	Load Regulation	±1%		
	Minimum Load	0%		
	Maximum Capacitive Load	470-23,000μF depending on model		
	Ripple & Noise (max.)	120mVp-p	200mVp-p	
	Efficiency (typ.)	90%	92%	93%
	Hold-up Time	20 ms min.		
	Switching Frequency	100 kHz		
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)	6.0 x 4.18 x 1.38 Inches (150.0 x 106.0 x 35.0 mm) Tolerance ±0.5 mm		
	Weight	615 g		
	Cooling Method	Free convection		
Safety	Agency Approvals	CE, UL60950		
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B		
	EMS (Noise Immunity)	EN 55024		

1. All specifications valid at nominal 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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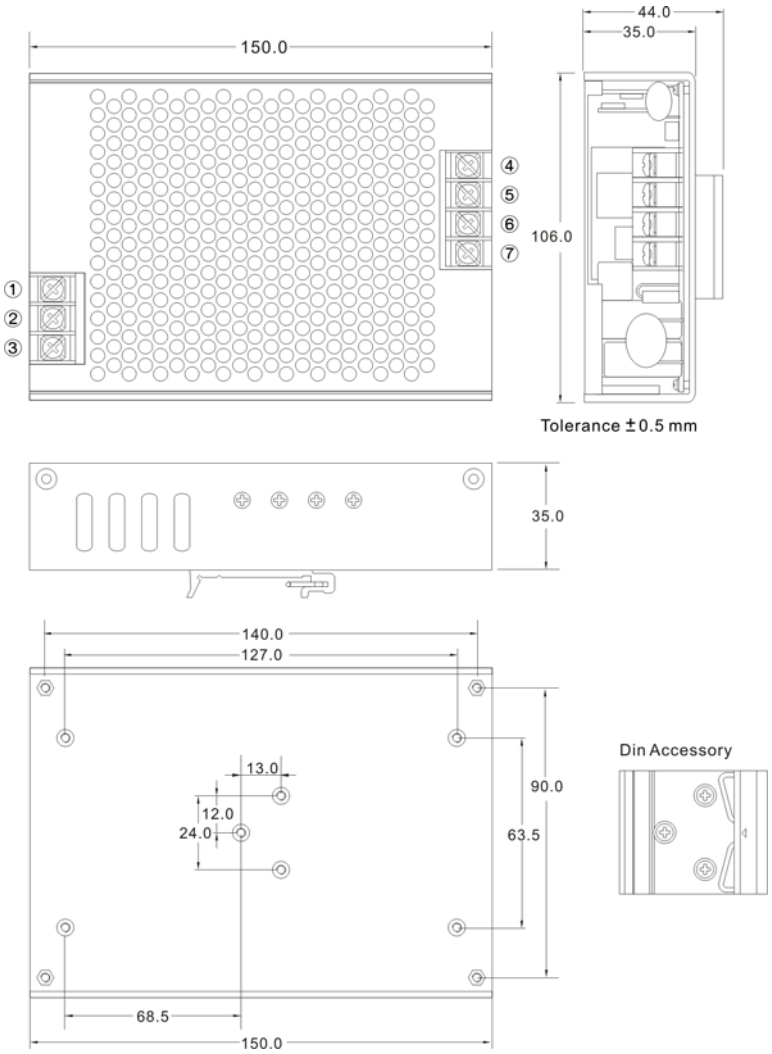
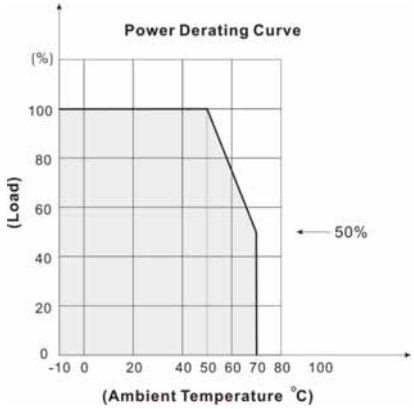
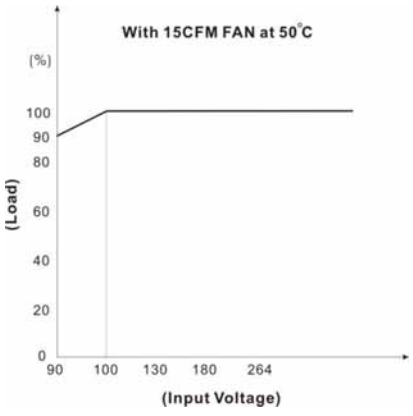
MECHANICAL DIMENSION (Top View)

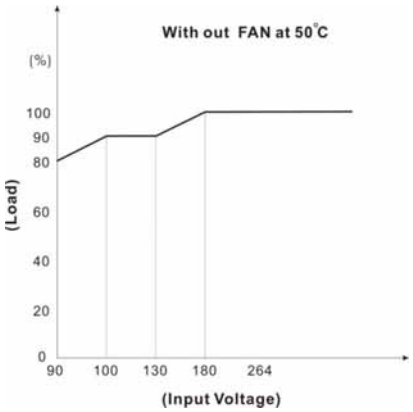


PIN#	SINGLE
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT

DRATING







BLOCK DIAGRAM

