

ARCH AQF240E AC-DC Switching Power Supply

Datasheet

<http://www.manuallib.com/arch/aqf240e-ac-dc-switching-power-supply-datasheet.html>

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
- .. 3-Years Product Warranty

ManualLib.com collects and classifies the global product instruction manuals to help users access anytime and anywhere, helping users make better use of products.

<http://www.manuallib.com>

AQF240E 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
- 3-Years Product Warranty



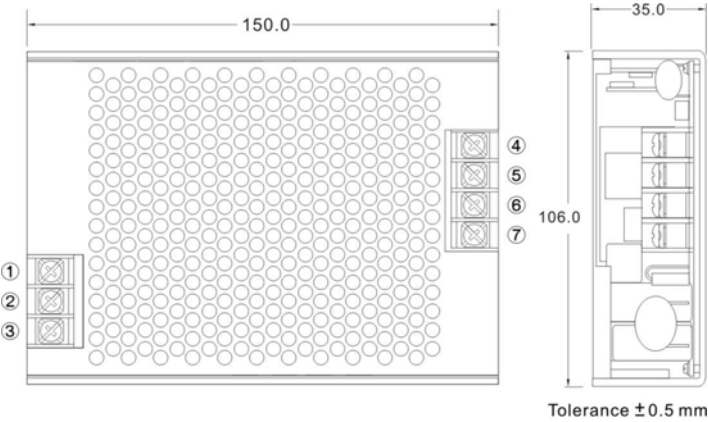
ELECTRICAL SPECIFICATIONS

Model No.		AQF240E-12S	AQF240E-15S	AQF240E-24S	AQF240E-28S	AQF240E-32S	AQF240E-48S
Max Output Wattage (W)		200W	220W	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	15V	24V	28V	32V	48V
	Voltage Accuracy	±2%					
	Current (Convection) (A) max	16.66	14.66	10	8.57	7.5	5
	Line Regulation	±1%					
	Load Regulation	±1%					
	Minimum Load	1%					
	Maximum Capacitive Load	470-23,000µF depending on model					
	Ripple & Noise (max.)	120mVp-p			200mVp-p		
	Efficiency (typ.)	90%	90%	92%	92%	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	610 g					
	Cooling Method	Free convection					
Safety	Agency Approvals	CE, UL60950, CB					
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.

MECHANICAL DIMENSION (Top View)



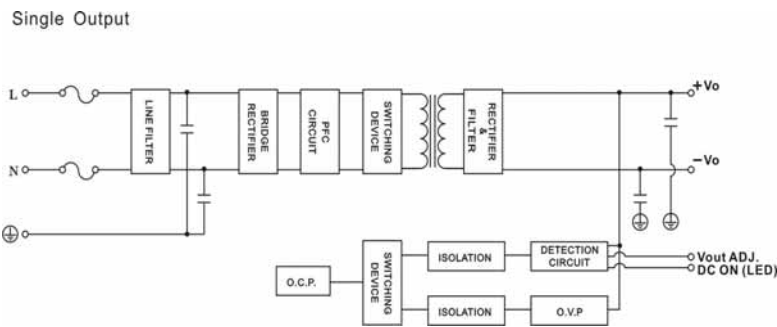
PIN#	SINGLE
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT

ASSEMBLY INSTRUCTIONS

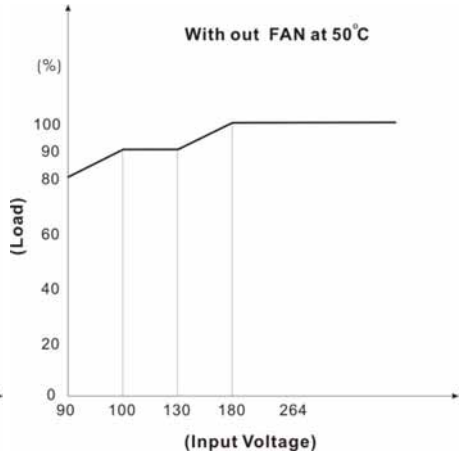
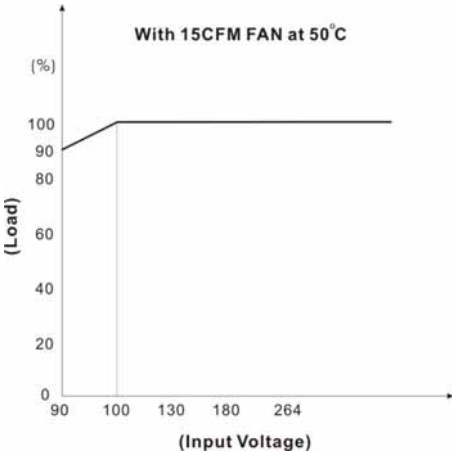
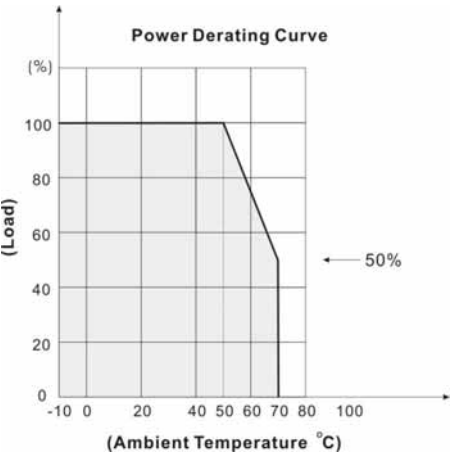
*U Case T=2.0mm

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

BLOCK DIAGRAM



DERATING



AQF240E SERIES

240 Watts

Din Rail Kit

AQF240E-DRK



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

