

## 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-Year Product Warranty



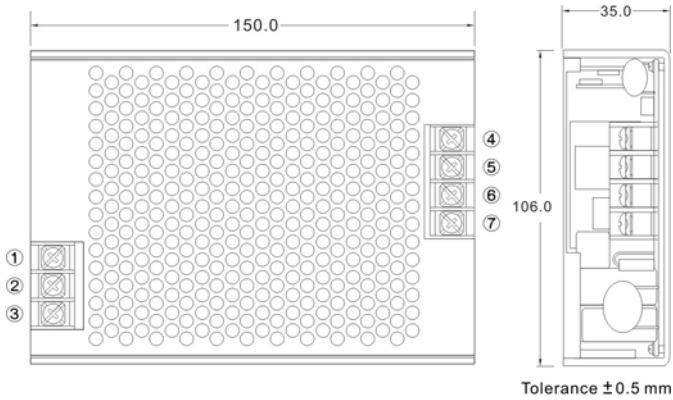
## ELECTRICAL SPECIFICATIONS

Model No.	AQF240E-12S	AQF240E-15S	AQF240E-24S	AQF240E-28S	AQF240E-36S	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)						
Output	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	36V	32V	48V
	Voltage Accuracy						
	±2%						
	Current (Convection) (A) max						
	16.66	14.66	10	8.57	6.66	7.5	5
	Line Regulation						
	±1%						
	Load Regulation						
	±1%						
Protection	Minimum Load						
	1%						
	Maximum Capacitive Load						
	470-23,000µF depending on model						
	Ripple & Noise (max.)						
	120mVp-p			200mVp-p			
	Efficiency (at 230VAC)						
	90%	90%	92%	92%	92%	92%	93%
Hold-up Time							
20 ms min.							
Isolation	Over Power Protection						
	Auto recovery						
	Over Voltage Protection						
Latch Off							
Environment	Short Circuit Protection						
	Latch Off						
	Input-Output (V.AC)						
4000V							
Physical	Input-FG (V.AC)						
	2000V						
	Output-FG (V.AC)						
	500V						
	Operating Temperature						
	-10°C...+70°C (with derating)						
Safety	Storage Temperature						
	-25°C...+85°C						
	Temperature Coefficient						
	±0.03%/°C ( 0~50°C )						
	Humidity						
95% RH							
EMC	MTBF						
	>50,000 h @ 25°C (MIL-HDBK-217F)						
	Vibration						
10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.							
Agency Approvals	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							
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 )**



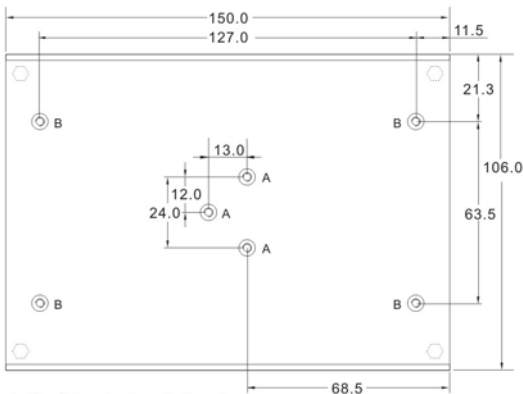
PIN#	Single
1	AC IN (L)
2	AC IN (N)
3	FG
4	+DC OUT
5	+DC OUT
6	-DC OUT
7	-DC OUT



**ASSEMBLY INSTRUCTIONS**

\*U Case T=2.0mm

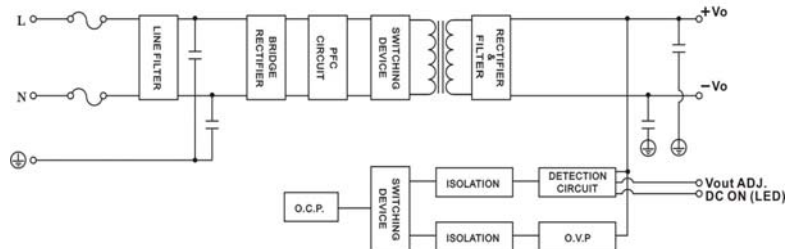
Customer is advised to screw into the threads no more than 2.0mm



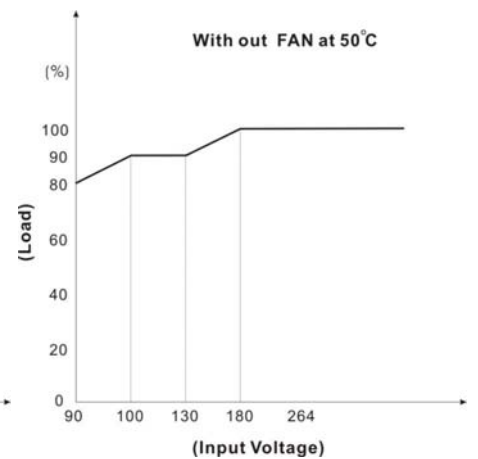
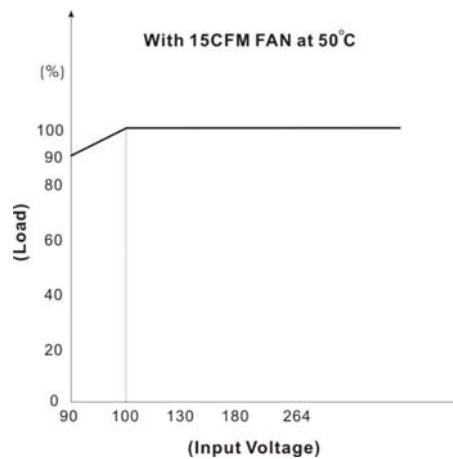
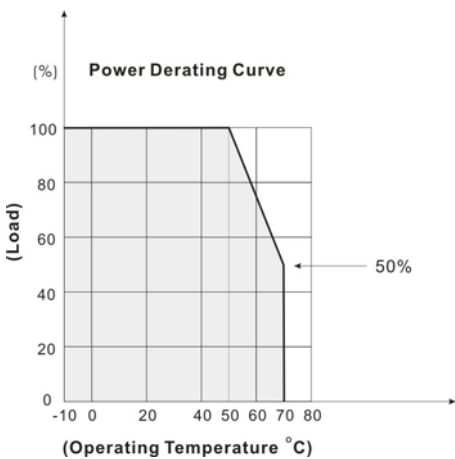
A=For fixture to din rail clip only  
B=For fixture to pcb/chassis only  
A=M3x0.5P  
B=M3x0.5P

**BLOCK DIAGRAM**

Single Output

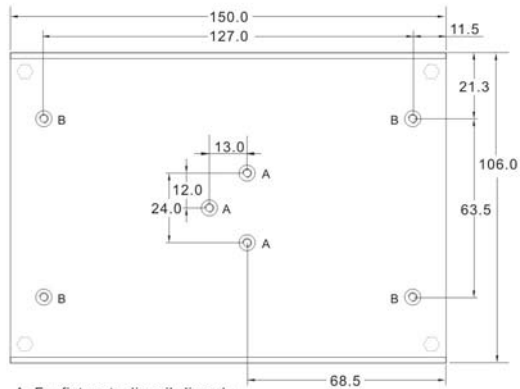
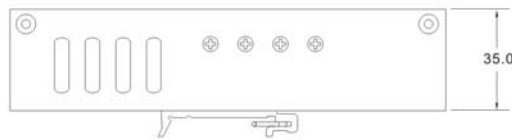
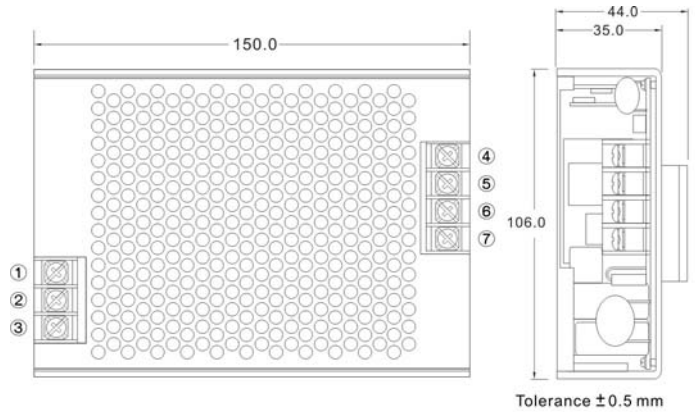


**DERATING**



**Din Rail Kit**

**AQF240E-DRK**



A=For fixture to din rail clip only  
 B=For fixture to pcb/chassis only  
 A=M3x0.5P  
 B=M3x0.5P

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