

KEY FEATURES

- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.9
- High Efficiency up to 90%
- RoHS Compliant Design
- Ultra Compact Size: 6.0 x 4.18 x 1.54 Inches
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

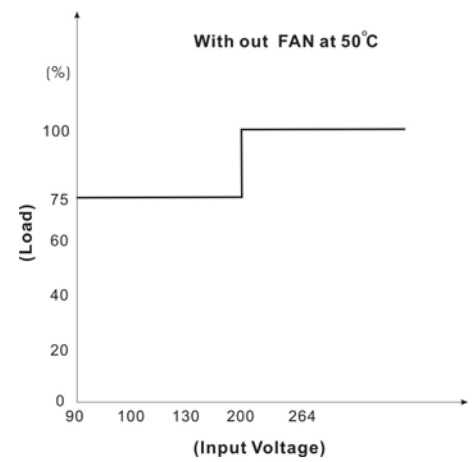
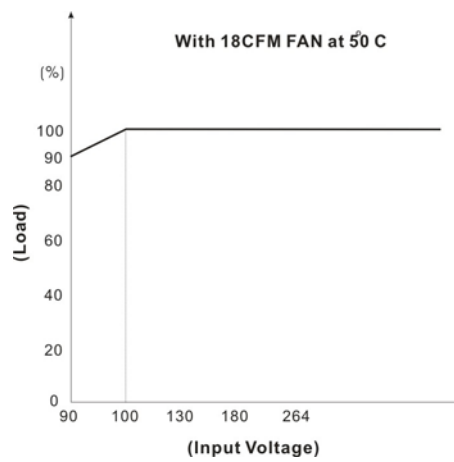
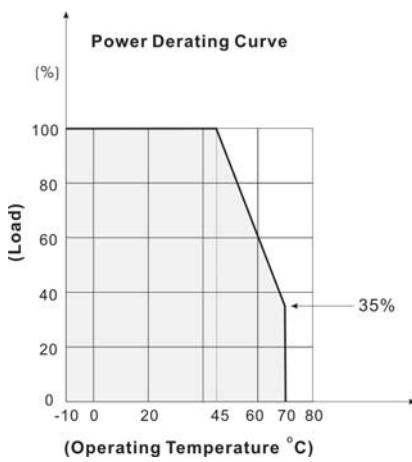
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

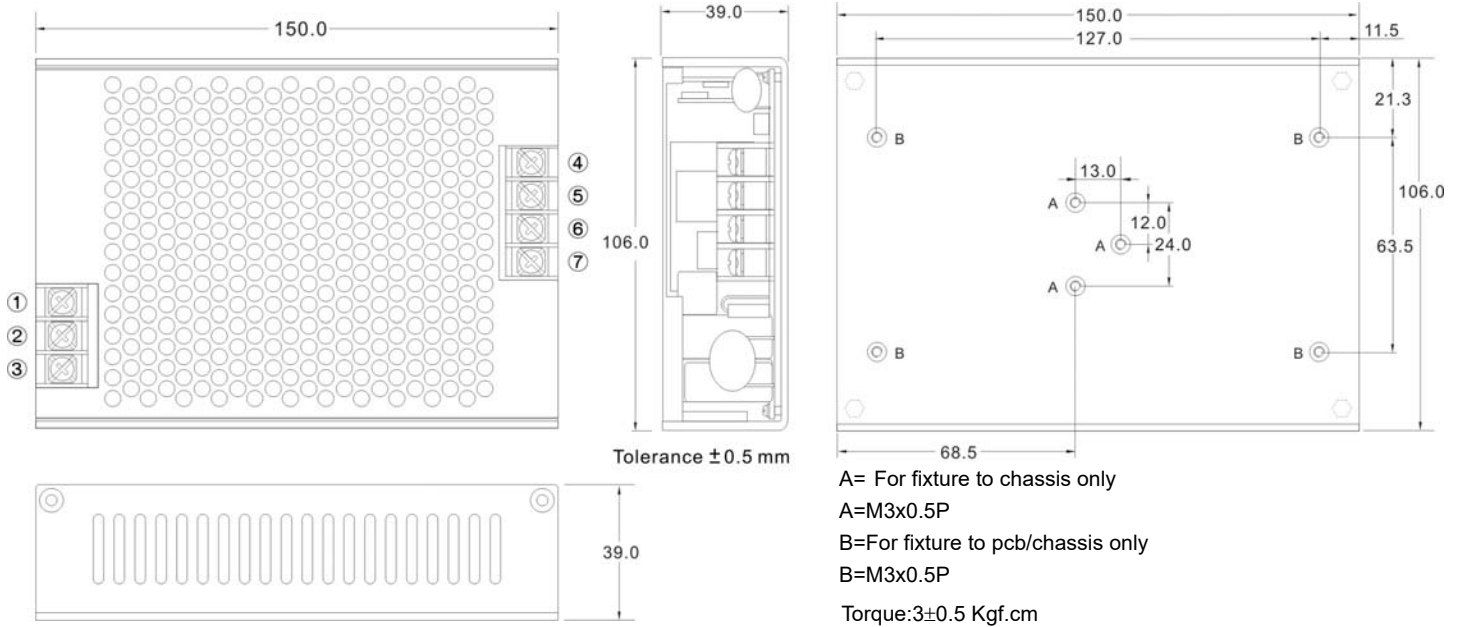
Model No.		AQF240E-12S24S	
Max Output Wattage (W)		240W	
Input	Voltage (Note 3)	90-264 VAC or 120-370 VDC	
	Frequency (Hz)	47-63 Hz	
	Current (Full load)	<3.0 A max. (115 VAC) / <1.5 A max. (230 VAC)	
	Inrush Current (<2ms)	< 45 A max. (115 VAC) / < 90 A max. (230 VAC)	
	Leakage Current	< 0.5 mA max.	
	Power Factor	> 0.9 at Full Load	
Output		Output 1	Output 2
	Voltage (V.DC.)	12V	24V
	Voltage Accuracy	±5%	
	Current (Convection) (A) max	10	5
	Line Regulation	±2%	
	Load Regulation	±5%	
	Minimum Load	25%	
	Maximum Capacitive Load	2,200µF	
	Ripple & Noise (max.)	240mVp-p	
	Efficiency (at 230VAC)	90%	
	Hold-up Time	7 ms min.	
Protection	Over Power Protection	Auto recovery	
	Over Voltage Protection	Zener diode clamp	
	Short Circuit Protection	Protection level 1 (nominal) : Continuous, Auto recovery Protection level 2 (instantaneous high current) : Latch	
Isolation	Input-Output (V.AC)	4000VAC or 5656VDC	
	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	>120,000 h @ 25°C (MIL-HDBK-217F)	
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.	
Physical	Dimensions (L x W x H)	6.0 x 4.18 x 1.54 Inches (150.0 x 106.0 x 39.0 mm) Tolerance ±0.5 mm	
	Weight	560 g	
	Cooling Method	Free convection or 18CFM	
Safety	Agency Approvals	UL/ IEC / EN 62368-1	
EMC	EMI (Conducted & Radiated Emission)	EN 55032 class B	
	EMS (Noise Immunity)	EN 55035	

NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors from Arch power supply.
3. Derating may be needed under low input voltages. Please check the derating curve for more details.
4. Load regulation for balanced load.
5. **CAUTION: Double pole, neutral fusing. Disconnect mains before servicing.**
(ATTENTION : 2 poles avec fusible sur le neutre. Deconnecter le secteur avant intervention.)

DERATING



MECHANICAL DIMENSIONS (Top View)
Standard

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm

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

