

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

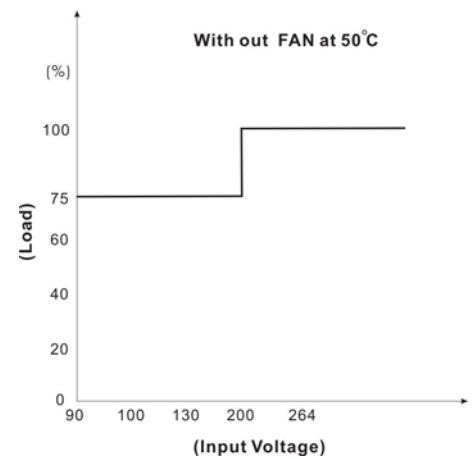
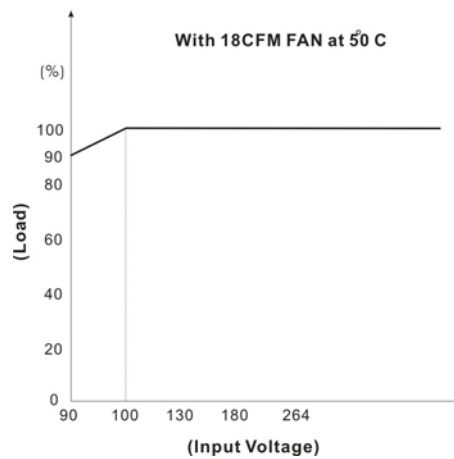
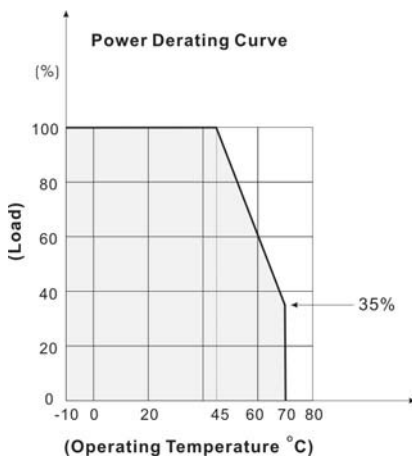
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

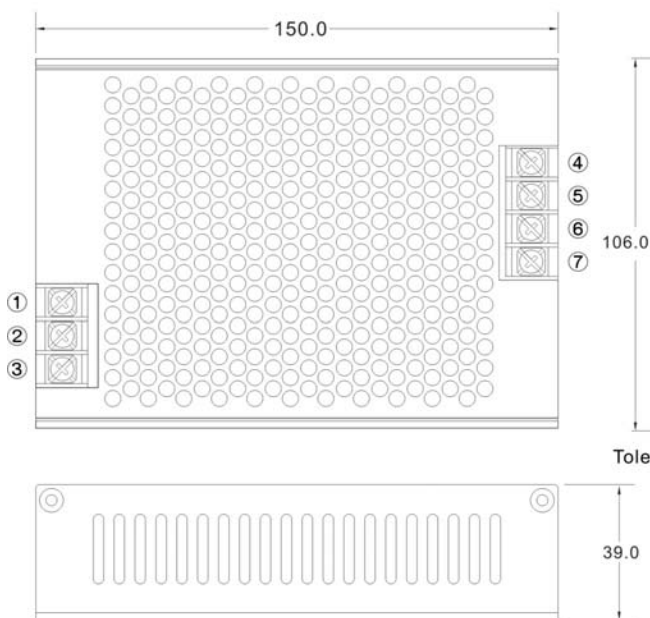
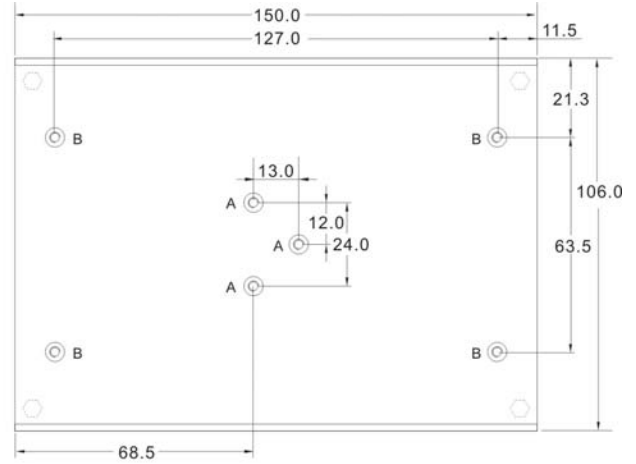
Model No.		AQF240E-12S24S	
Max Output Wattage (W)		240W	
Input	Voltage (Note 3)	90-264 VAC or 120-370 VDC	
	Frequency (Hz)	47-63 Hz	
	Current (Full load)	<3.0 A max. (115 VAC) / <1.5 A max. (230 VAC)	
	Inrush Current (<2ms)	< 45 A max. (115 VAC) / < 90 A max. (230 VAC)	
	Leakage Current	< 0.5 mA max.	
	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 (Note 5)	-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. Due to varying customer application conditions, the product is tested for maximum operating temperature under full load only. For other regulatory requirements, please contact ARCH.
6. 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

 Tolerance ± 0.5 mm


A= For fixture to chassis only

A=M3x0.5P

B=For fixture to pcb/chassis only

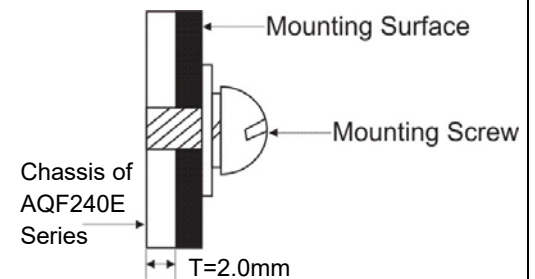
B=M3x0.5P

 Torque:3 \pm 0.5 Kgf.cm

ASSEMBLY INSTRUCTIONS

*U Case T=2.0mm

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



Brands		Terminal
PIN#	Single	
1	AC IN (L)	ANYTEK DG28S-B-03P
2	AC IN (N)	
3	FG	
4	+12V OUT	ANYTEK DG28S-B-04P
5	+24V OUT	
6~7	COMMON	