

KEY FEATURES

- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- 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

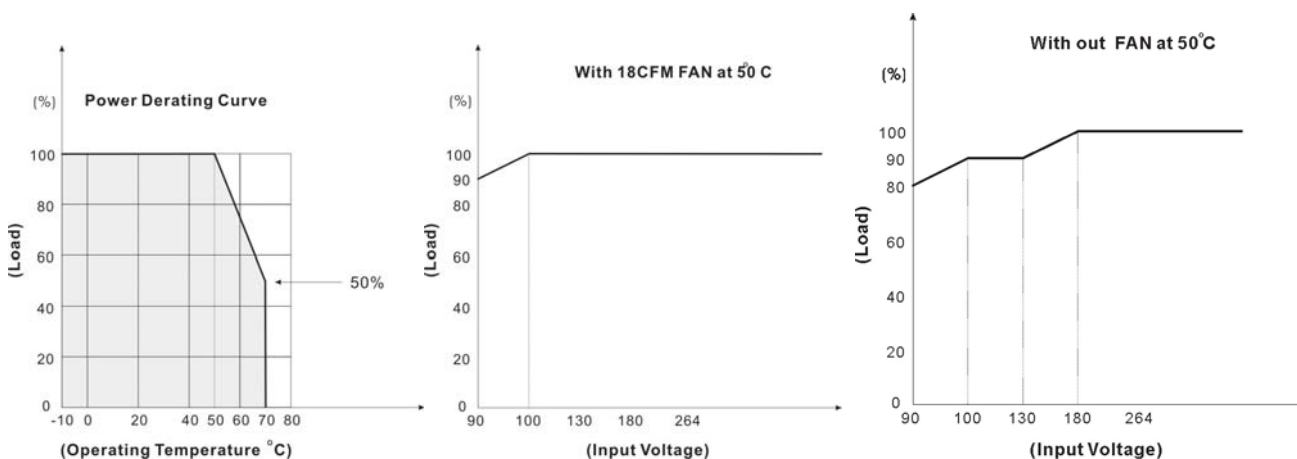
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

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 (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)	< 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%						
	Trim	±5% Output Voltage						
	Current (Convection) (A) max	16.66	14.66	10	8.57	6.66	7.5	5
	Line Regulation	±1%						
	Load Regulation	±1%						
	Minimum Load	2%						
	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%
Protection	Hold-up Time (Note 5)	12 ms min.						
	Over Power Protection	Auto recovery						
	Over Voltage Protection	Latch Off						
	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) (Note 4)						
	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 1.38 Inches (150.0 x 106.0 x 35.0 mm) Tolerance ±0.5 mm						
	Weight	610 g						
	Cooling Method	Free convection or 18CFM						
Safety	Agency Approvals	IEC / EN 60950(15S, 28S, 36S N/A), UL/ IEC / EN 62368-1(15S, 28S, 36S N/A)						
EMC	EMI (Conducted & Radiated Emission)	EN 55032 class B						
	EMS (Noise Immunity)	EN 55024						

NOTE

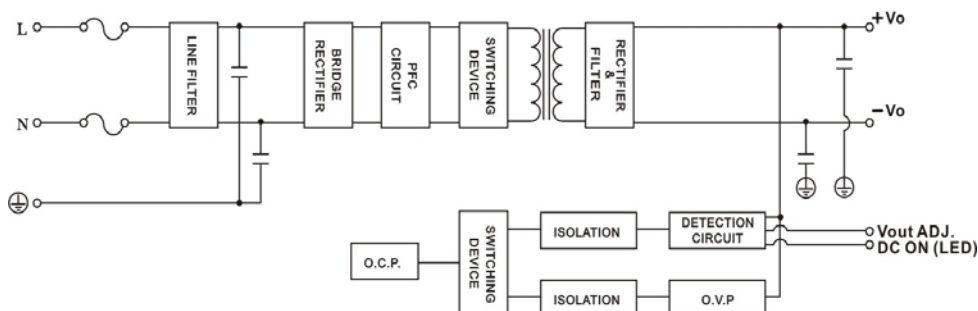
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors from Arch power supply.
3. Derating may be needed under low input voltages. Please check the derating curve for more details.
4. Hold-up Time : 10ms at 32S output, 12ms for others output models.
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



BLOCK DIAGRAM

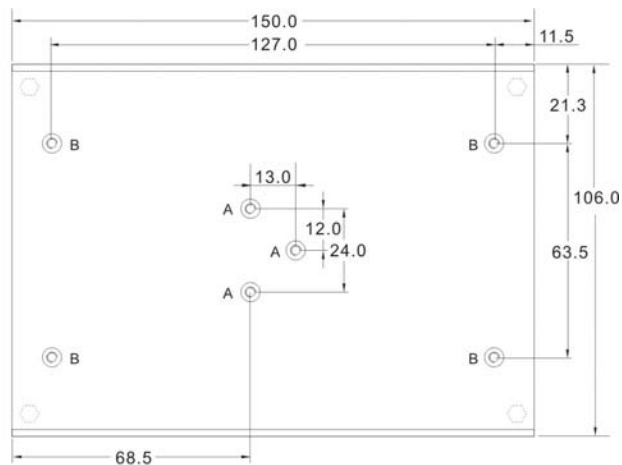
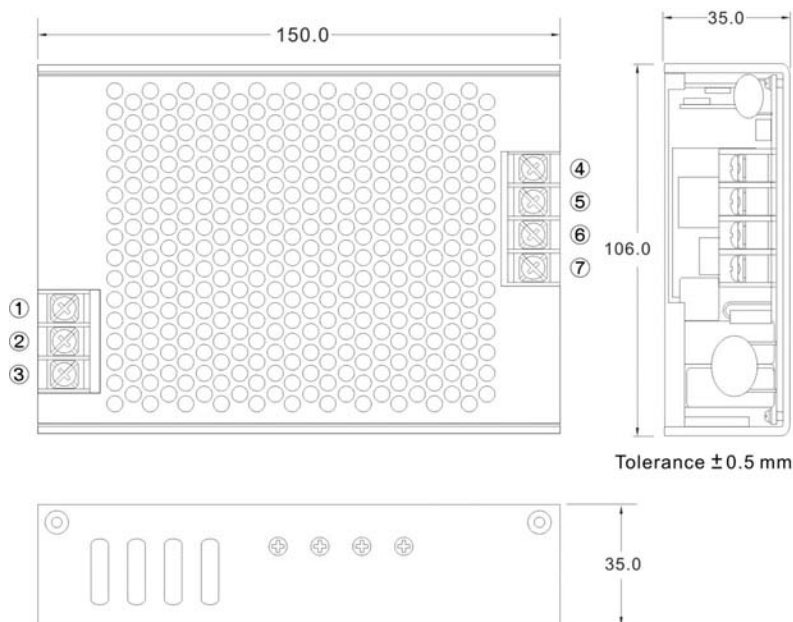
Single Output



AQF240E SERIES

240 Watts

MECHANICAL DIMENSIONS (Top View)



A= For fixture to din rail kit/chassis only

$$A = M^{3 \times 0.5} P$$

B=For fixture to pcb/chassis only

$$B = M3 \times 0.5P$$

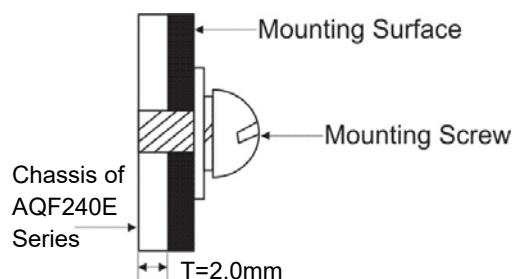
Torque: 3 ± 0.5 Kgf.cm

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

ASSEMBLY INSTRUCTIONS

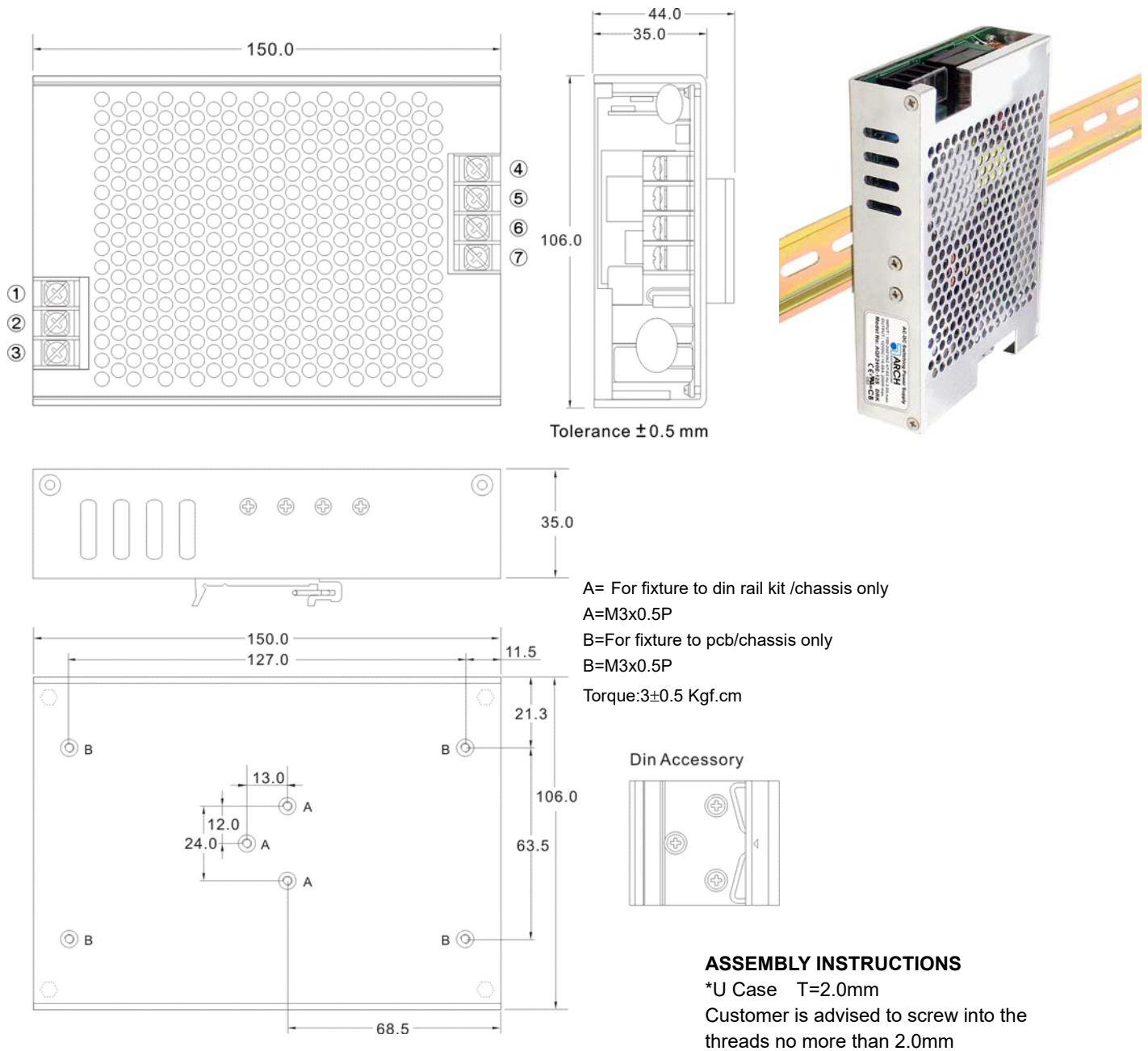
*U Case T=2.0mm

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



Din Rail Kit

AQF240E-DRK



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

