

KEY FEATURES

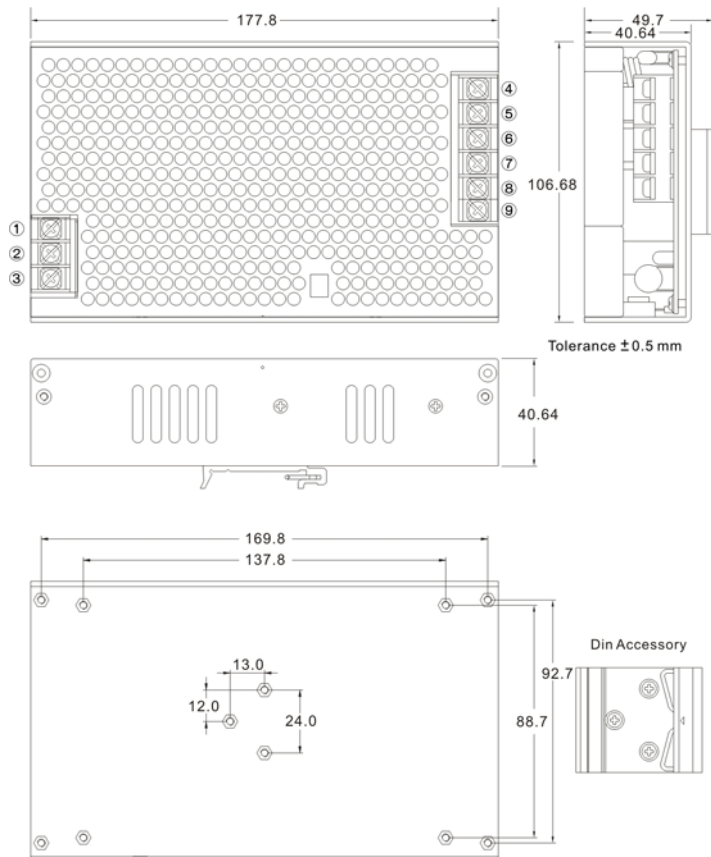
- Din Rail Switching Power Supply
- Universal Input: 90-264 VAC
- With PFC Function
- 250 Watt with 18CFM FAN
- 3.3 VDC to 48 VDC Single Output
- 3000 VAC Input to Output Isolation
- Size: 7.0 x 4.2 x 1.6 Inches
- 2-Years Product Warranty



ELECTRICAL SPECIFICATIONS

Model No.		AQF250D-3.3S	AQF250D-5S	AQF250D-12S	AQF250D-15S	AQF250D-24S	AQF250D-48S
Max Output Wattage (18CFM FAN) (W)		132W	200W	250W	250W	250W	250W
Max Output Wattage (W)		80W	120W	162W	162W	162W	162W
Input	Voltage	90-264 VAC or 120-370 VDC					
	Frequency (Hz)	47-63 Hz					
	Current (Full load)	4.0 A max. (115 VAC) / 2.0 A max. (230 VAC)					
	Inrush Current (<2ms)	40 A max. (115 VAC) / 80 A max. (230 VAC)					
	Leakage Current	3.5 mA max.					
	Power Factor	PF>0.97 (115 VAC) / PF>0.93 (230 VAC) at Full Load					
Output	Voltage (V.DC.)	3.3V	5V	12V	15V	24V	48V
	Voltage Accuracy	±2%					
	Current (18CFM FAN) (A) max	40	40	20.83	16.66	10.4	5.2
	Current (Convection) (A) max	24.24	24	13.5	10.8	6.75	3.375
	Line Regulation (LL-HL) (typ.)	±1%					
	Load Regulation (5-100%) (typ.)	±1%					
	Minimum Load	0%					
	Maximum Capacitive Load	470-23,000μF depending on model					
	Ripple & Noise	100 mV max.		1% max.			
	Efficiency (typ.)	72%	77%	81%	82%	83%	84%
	Hold-up Time	18 ms min.					
	Switching Frequency	67 kHz					
Protection	Over Power Protection	Auto recovery					
	Over Voltage Protection	Zener diode clamp					
	Short Circuit Protection	Auto recovery					
Isolation	Input-Output (V.AC)	3000V					
	Input-FG (V.AC)	1500V					
	Output-FG (V.AC)	500V					
Environment	Operating Temperature	-25°C...+70°C (with derating)					
	Storage Temperature	-40°C...+85°C					
	Temperature Coefficient	±0.02%/°C (0~50°C)					
	Humidity	95% RH					
	MTBF	>50,000 h @ 25°C (MIL-HDBK-217F)					
	Vibration	10~500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes.					
Physical	Dimension (L x W x H)	7.0 x 4.2 x 1.6 Inches (177.8 x 106.68 x 40.64 mm) Tolerance ±0.5 mm					
	Weight	840 g					
	Cooling Method	Free air convection / 18CFM Forced Air					
Safety	Agency Approvals	CE, UL					
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class B					
	EMS (Noise Immunity)	EN 55024					

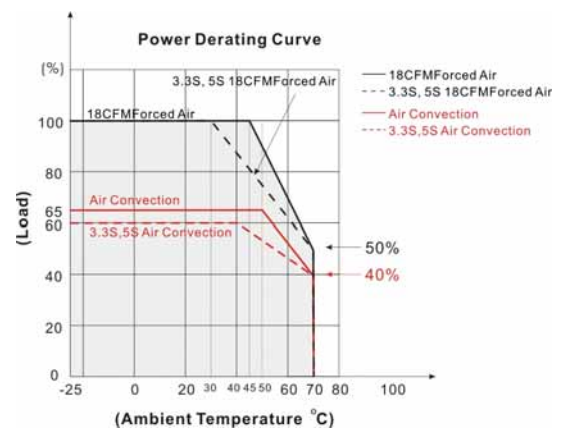
MECHANICAL DIMENSION (Top View)



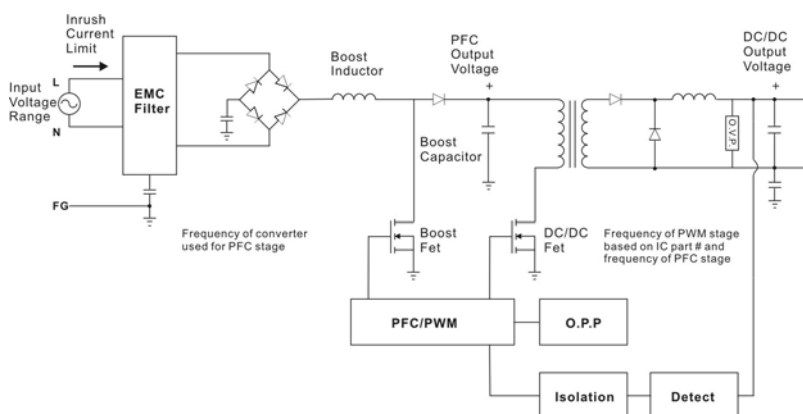
Please note the length of screw do not over 3mm in case breaking through Mylar under PCB board.

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

DERATING



BLOCK DIAGRAM



STATIC CHARACTERISTICS

