

KEY FEATURES

- Open Frame Switching Power Supply with PFC, 1U
- Universal Input: 90-260 VAC
- Single Output
- 5 VDC to 24 VDC Output
- 3000 VAC Input to Output Isolation
- Ultra Compact Size: 5 x 2 x 1.28 Inches
- 2-Year Product Warranty

PRELIMINARY

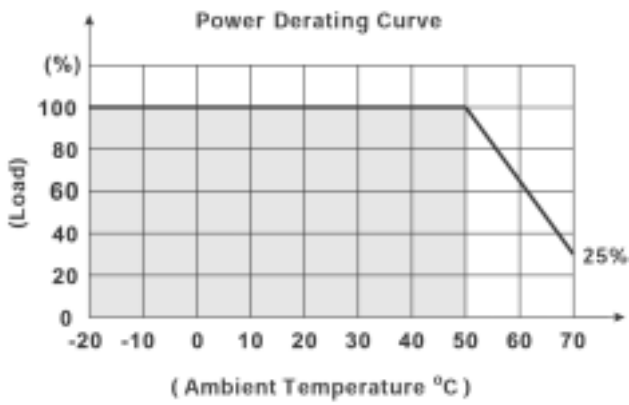
ELECTRICAL SPECIFICATIONS

Model No.		AQF1250-5S	AQF1250-12S	AQF1250-15S	AQF1250-24S
Max output wattage (W)		125W	125W	125W	125W
Input	Voltage	90-260 VAC or 120-370 VDC			
	Frequency (Hz)	47-63 Hz			
	Current (Full load)	3 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	1.5 mA max.			
Output	Voltage (V.DC.)	5V	12V	15V	24V
	Voltage accuracy	±2%	±2%	±2%	±2%
	Current (A) max	25000	10400	8330	5250
	Line regulation (typ.)	±1%	±1%	±1%	±1%
	Load regulation (10-100%) (typ.)	±1%	±1%	±1%	±1%
	Minimum load	0%	0%	0%	0%
	Maximum capacitive load	470-23,000µF depending on model			
	Ripple & Noise	1% max.	1% max.	1% max.	1% max.
	Efficiency	80%	83%	84%	86%
	Hold-up time	20 ms min.			
Protection	Switching frequency	125 kHz	125 kHz	125 kHz	125 kHz
	Over current protection	Auto recovery			
	Over voltage protection	Latch off			
	Short circuit protection	Auto recovery			
Isolation	Remote Sense	Compensate for 0.5V load drop min.			
	Input-Output (V.AC)	3000V	3000V	3000V	3000V
	Input-FG (V.AC)	1500V	1500V	1500V	1500V
	Output-FG (V.AC)	500V	500V	500V	500V
Environment	Operating temperature	0°C...+50°C			
	Storage temperature	-40°C...+85°C			
	Temperature coefficient	0.02%/°C	0.02%/°C	0.02%/°C	0.02%/°C
	Humidity	95% RH			
	MTBF	Pending			
Physical	Dimension (L x W x H)	5.0 x 2.0 x 1.28 Inches (127 x 50.8 x 32.5 mm)			
	Weight	g			
	Cooling method	Free air convection			
Safety	Agency approvals	Pending			
EMC	EMI (Conducted & Radiated Emission)	Pending			
	EMS (Noise Immunity)	Pending			

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

MECHANICAL DIMENSION (Top View)

DERATING



BLOCK DIAGRAM

