

KEY FEATURES

- Din Rail Switching Power Supply with PFC
- Universal Input: 90-260 VAC
- Single Output
- 5 VDC to 48 VDC Output
- 3000 VAC Input to Output Isolation
- Ultra Compact Size: 4.53 x 3.54 x 1.59 Inches
- 2-Year Product Warranty

PRELIMINARY

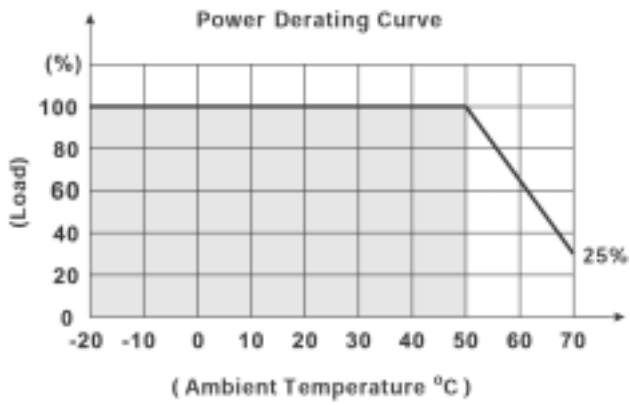
ELECTRICAL SPECIFICATIONS

| Model No. | AQF125D-5S | AQF125D-12S | AQF125D-24S | AQF125D-48S | |
|---|-------------------------------------|--|-------------|-------------|----------|
| 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 | 24V | 48V |
| | Voltage accuracy | ±2% | ±2% | ±2% | ±2% |
| | Current (A) max | 25000 | 10400 | 5200 | 2600 |
| | 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 |
| | Transient Recovery Time | 300 µS | | | |
| | Efficiency | 80% | 83% | 84% | 86% |
| | Hold-up time | 20 ms min. | | | |
| | Switching frequency | 125 kHz | 125 kHz | 125 kHz | 125 kHz |
| Protection | Over current protection | Auto recovery | | | |
| | Over voltage protection | Latch off | | | |
| | Short circuit protection | Auto recovery | | | |
| | Remote Sense | Compensate for 0.5V load drop min. | | | |
| Isolation | Voltage (V.AC) | 3000V | 3000V | 3000V | 3000V |
| | | | | | |
| 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) | 4.53 x 3.54 x 1.59 Inches (115 x 90 x 40.5 mm) | | | |
| | Case | Plastic | | | |
| | Weight | 640 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

