

KEY FEATURES

- U Bracket Switching Power Supply with PFC
- Universal Input: 90-260 VAC
- Single Output
- 5 VDC to 24 VDC Output
- 3000 VAC Input to Output Isolation
- Ultra Compact Size: 5.2 x 2.28 x 1.48 Inches
- 2-Year Product Warranty

PRELIMINARY

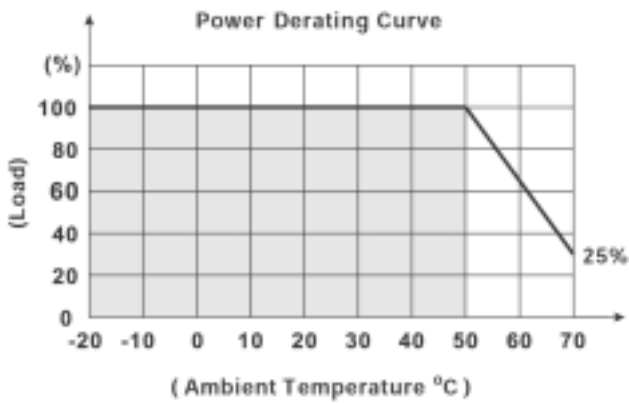
ELECTRICAL SPECIFICATIONS

| Model No. | | AQF125U-5S | AQF125U-12S | AQF125U-15S | AQF125U-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 | 5200 |
| | 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) | 5.2 x 2.28 x 1.48 Inches (132 x 58 x 37.5 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

