

KEY FEATURES

- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- With P.F.C. Function, PF>0.95
- Free Air Cooling by Built-in DC Fan
- High Efficiency up to 93%
- RoHS Compliant Design
- Ultra Compact Size: 7.0 x 4.0 x 1.6 Inches
- 2-Years Product Warranty

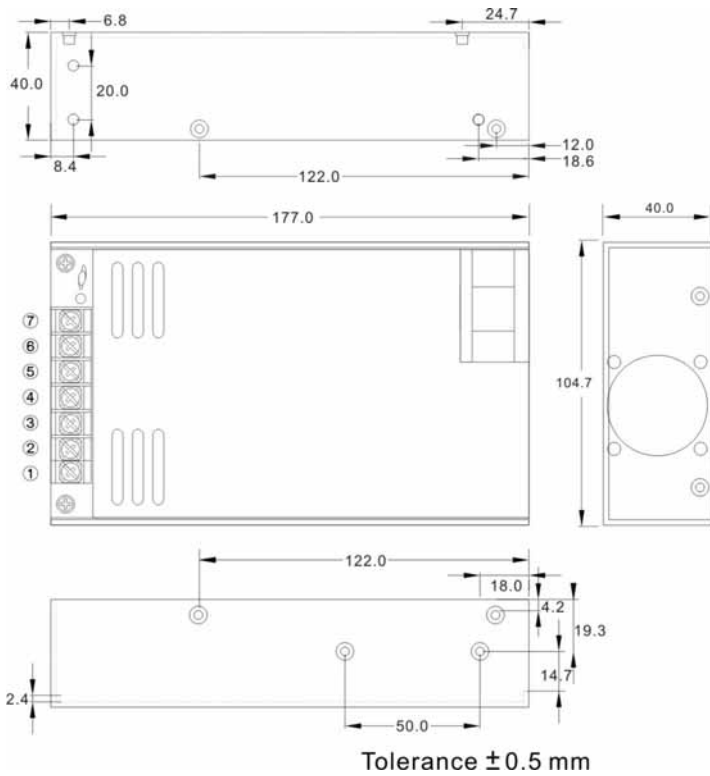

ELECTRICAL SPECIFICATIONS

| Model No. | AQF360F-12S | AQF360F-24S | AQF360F-48S | |
|--|---|---|---------------|-----|
| Max Output Wattage (W) | 360W | 360W | 360W | |
| Input | Voltage | | | |
| | 90-264 VAC or 120-370 VDC | | | |
| | Frequency (Hz) | | | |
| | 47-63 Hz | | | |
| | Current (Full load) | | | |
| | <6.0 A max. (115 VAC) / <3.0 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 | 24V | 48V |
| | Voltage Accuracy | ±2% | | |
| | Current (Convection) (A) max | 30 | 15 | 7.5 |
| | Line Regulation | ±1% | | |
| | Load Regulation | ±1% | | |
| | Minimum Load | 0% | | |
| | Maximum Capacitive Load | 470-23,000µF depending on model | | |
| | Ripple & Noise (max.) | 120mVp-p | 200mVp-p | |
| | Efficiency (typ.) | 89% | 91% | 93% |
| | Hold-up Time | 13 ms min. | | |
| | Switching Frequency | 100 kHz | | |
| | Protection | Over Power Protection | Auto recovery | |
| Over Voltage Protection | | Latch Off | | |
| Short Circuit Protection | | Auto-recovery | | |
| Isolation | Input-Output (V.AC) | 4000V | | |
| | Input-FG (V.AC) | 2000V | | |
| | Output-FG (V.AC) | 500V | | |
| Environment | Operating Temperature | -10°C...+70°C (with derating) | | |
| | Storage Temperature | -25°C...+85°C | | |
| | Temperature Coefficient | ±0.03%/°C (0~50°C) | | |
| | Humidity | 95% RH | | |
| | MTBF | >50,000 h @ 25°C (MIL-HDBK-217F) | | |
| | Vibration | 10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes. | | |
| Physical | Dimension (L x W x H) | 7.0 x 4.12 x 1.58 Inches (177.0 x 104.7 x 40.0 mm) Tolerance ±0.5 mm | | |
| | Weight | 610 g | | |
| | Cooling Method | Free Air Cooling by Built-in DC Fan | | |
| Safety | Agency Approvals | CE, UL60950 (Pending) | | |
| EMC | EMI (Conducted & Radiated Emission) | EN 55022 class B (Pending) | | |
| | EMS (Noise Immunity) | EN 55024 (Pending) | | |

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

2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1µF & 47µF parallel capacitor.

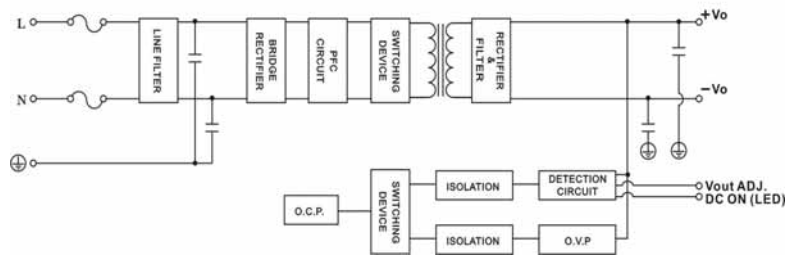
MECHANICAL DIMENSION (Top View)



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

BLOCK DIAGRAM

Single Output



DERATING

