

## KEY FEATURES

- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- Single Output
- 5 VDC to 24 VDC Output
- 3000 VAC Input to Output Isolation
- Ultra Compact Size: 4.15 x 2.3 x 1.5 Inches
- 2-Years Product Warranty



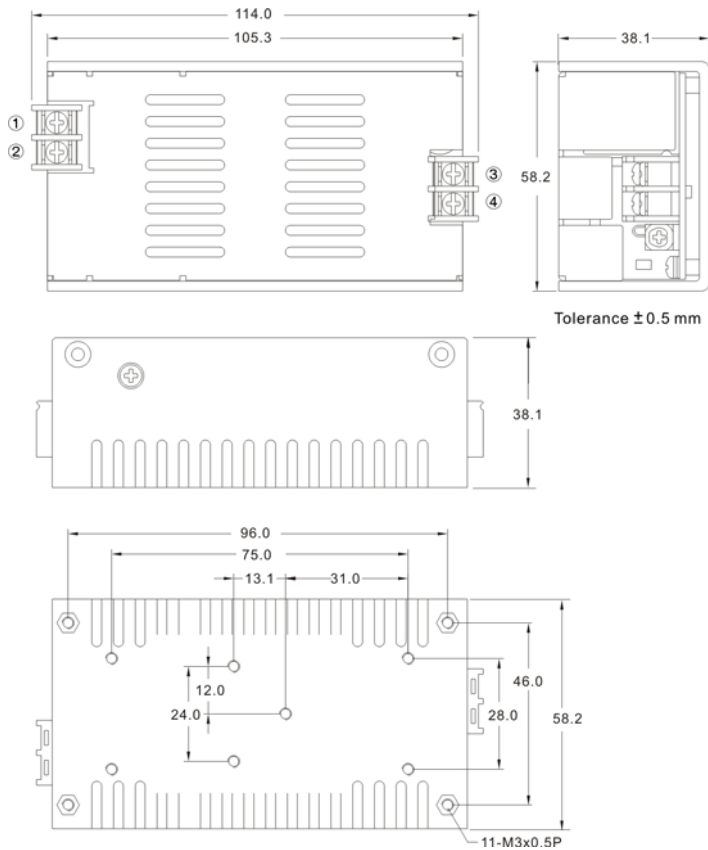
## ELECTRICAL SPECIFICATIONS

| Model No.   | AQS75E-5S  | AQS75E-12S  | AQS75E-15S  | AQS75E-24S |
|---|--|-------------|-------------|------------|
| Max Output Wattage (W)                                      | 60W  | 75W         | 75W         | 75W        |
| Input   | Voltage  |             |             |            |
|   | 90-264 VAC or 120-370 VDC  |             |             |            |
|   | Frequency (Hz)   |             |             |            |
|   | 47-63 Hz   |             |             |            |
|   | Current (Full load)  |             |             |            |
| 2 A max. (115 VAC) / 1 A max. (230 VAC)                     |  |             |             |            |
| Inrush Current (<2ms)                                       |  |             |             |            |
| 20 A max. (115 VAC) / 40 A max. (230 VAC)                   |  |             |             |            |
| Leakage Current   |  |             |             |            |
| 3.5 mA max.   |  |             |             |            |
| Output  | Voltage (V.DC.)  |             |             |            |
|   | 5V   | 12V         | 15V         | 24V        |
|   | Voltage Accuracy   |             |             |            |
|   | ±2%  |             |             |            |
|   | Current (mA) max   |             |             |            |
|   | 12,000   | 6,250       | 5,000       | 3,130      |
|   | Line Regulation (LL-HL) (typ.)                                       |             |             |            |
|   | ±1%  |             |             |            |
|   | Load Regulation (5-100%) (typ.)                                      |             |             |            |
|   | ±1%  |             |             |            |
|   | Minimum Load   |             |             |            |
| 1%  |  |             |             |            |
| Maximum Capacitive Load                                     |  |             |             |            |
| 470-23,000µF depending on model                             |  |             |             |            |
| Ripple & Noise (Vp-p)                                       |  |             |             |            |
| 100 mV max.   | 150 mV max.  | 200 mV max. | 300 mV max. |            |
| Efficiency  |  |             |             |            |
| 73%   | 80%  | 80%         | 80%         |            |
| Hold-up Time  |  |             |             |            |
| 18 ms min.  |  |             |             |            |
| Switching Frequency   |  |             |             |            |
| 133 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  |             |             |            |
| Humidity  |  |             |             |            |
| 95% RH  |  |             |             |            |
| MTBF  |  |             |             |            |
| >130,000 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)  |             |             |            |
|   | 4.15 x 2.3 x 1.5 Inches ( 105.3 x 58.2 x 38.1 mm ) Tolerance ±0.5 mm |             |             |            |
|   | Weight   |             |             |            |
| 290 g   |  |             |             |            |
| Cooling Method  |  |             |             |            |
| Free air convection   |  |             |             |            |
| Safety  | Agency Approvals   |             |             |            |
| CE, UL  |  |             |             |            |
| EMC   | EMI (Conducted & Radiated Emission)                                  |             |             |            |
|   | EN 55022 class B   |             |             |            |
| EMS (Noise Immunity)  |  |             |             |            |
| EN 55024  |  |             |             |            |

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

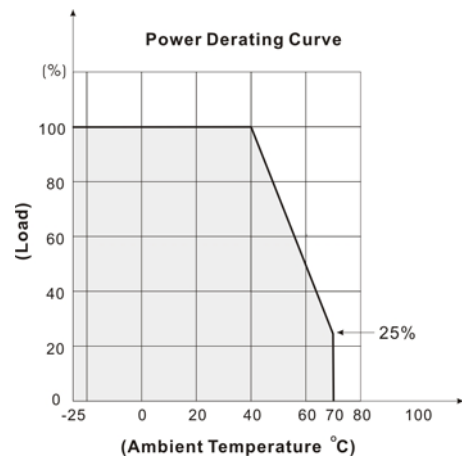
Measured with 0.1µ 50V // 47µ 50V Ceramic Cap. Cross to output

**MECHANICAL DIMENSION ( Top View )**



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

**DERATING**



**BLOCK DIAGRAM**

