

## KEY FEATURES

- U Bracket 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



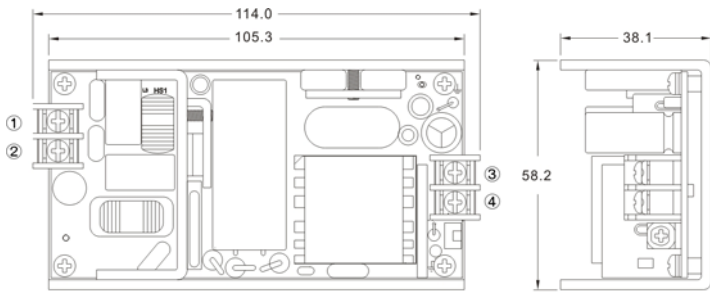
## ELECTRICAL SPECIFICATIONS

| Model No.                                 | AQS75U-5S                           | AQS75U-12S   | AQS75U-15S  | AQS75U-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                              | 285 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

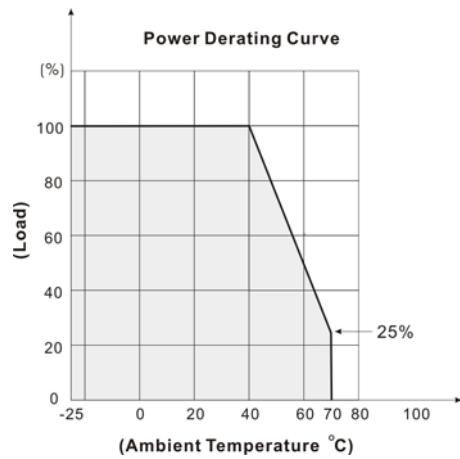
**MECHANICAL DIMENSION ( Top View )**



Tolerance  $\pm 0.5$  mm

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

**DERATING**



**BLOCK DIAGRAM**

