

KEY FEATURES

- Enclosed Switching Power Supply
- Universal Input: 85-265 VAC
- Single Output
- 5 VDC to 48 VDC Output
- 3000 VAC Input to Output Isolation
- 2-Years Product Warranty



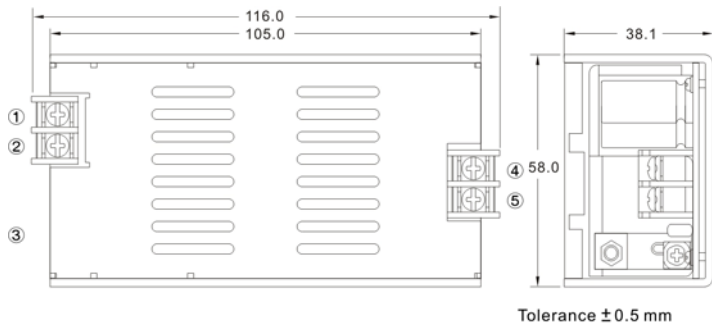
ELECTRICAL SPECIFICATIONS

| Model No. | AES60E-5S | AES60E-9S | AES60E-12S | AES60E-15S | AES60E-24S | AES60E-48S | |
|------------------------|-------------------------------------|---|------------|------------|------------|------------|---|
| Max Output Wattage (W) | 50W | 60W | 60W | 60W | 60W | 60W | |
| Input | Voltage | | | | | | 85-265 VAC or 100-370 VDC |
| | Frequency (Hz) | | | | | | 47-63 Hz |
| | Current (Full load) | | | | | | 2 A max. (115 VAC) / 1 A max. (230 VAC) |
| | Inrush Current (<2ms) | | | | | | 30 A max. (115 VAC) / 50 A max. (230 VAC) |
| | Leakage Current | | | | | | 0.5 mA max. |
| Output | Voltage (V.DC.) | 5V | 9V | 12V | 15V | 24V | 48V |
| | Voltage Accuracy | ±2% | | | | | |
| | Current (mA) max | 10,000 | 6,660 | 5,000 | 4,000 | 2,500 | 1,250 |
| | 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 | <0.2% Vout +40mV max (Vp-p) | | | | | |
| | Noise | <0.5% Vout +50mV max (Vp-p) | | | | | |
| | Efficiency (at 230V) | 82% | 84% | 86% | 86% | 86% | 86% |
| | Trim | ±10% | | | | | |
| | Hold-up Time | 10 ms min. | | | | | |
| | Switching Frequency | 100 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 | -40°C...+70°C (with derating) | | | | | |
| | Storage Temperature | -50°C...+85°C | | | | | |
| | Temperature coefficient | ±0.02%/°C | | | | | |
| | Humidity | 95% RH | | | | | |
| | MTBF | >130,000 h @ 25°C (MIL-HDBK-217F) | | | | | |
| Physical | Dimension (L x W x H) | 4.13 x 2.28 x 1.5 Inches (105.0 x 58.0 x 38.1 mm) Tolerance ±0.5 mm | | | | | |
| | Weight | 260 g | | | | | |
| | Cooling Method | Free air convection | | | | | |
| Safety | Agency Approvals | CE, UL60950 | | | | | |
| 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.

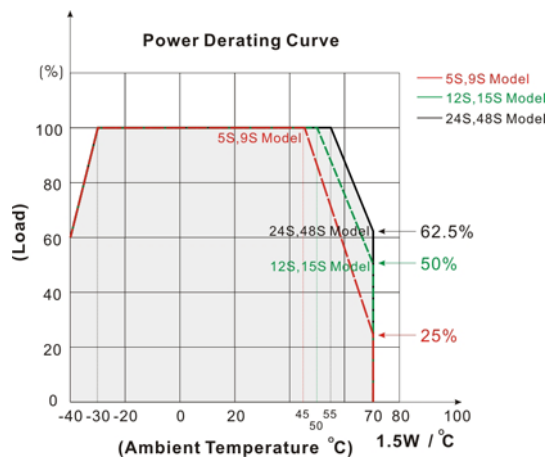
Measured with 0.1µ 50V // 47µ 50V Ceramic Cap. Cross to output

MECHANICAL DIMENSION (Top View)



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

DERATING



BLOCK DIAGRAM

