

AES600 SERIES

60 Watts

KEY FEATURES

- Open Frame Switching Power Supply
- Universal Input: 90-264 VAC
- Single Output
- 5 VDC to 48 VDC Output
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

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

| Model No. | AES600-5S | AES600-9S | AES600-12S | AES600-15S | AES600-24S | AES600-48S | |
|---|-------------------------------------|--|---------------|------------|------------|------------|-------|
| Max Output Wattage (W) | 50W | 60W | 60W | 60W | 60W | 60W | |
| 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) | | | | | | | |
| 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 (at 230VAC) | 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. | | | | | |
| | Protection | Over Power Protection | Auto recovery | | | | |
| Over Voltage Protection | | Zener diode clamp | | | | | |
| Short Circuit Protection | | Auto recovery | | | | | |
| Isolation | Input-Output (V.AC) | 3000VAC or 4242VDC | | | | | |
| | 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 | Vibration | 10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes. | | | | | |
| | Dimensions (L x W x H) | 4.1 x 2.05 x 1.0 Inches (103.9 x 52.1 x 25.4 mm) Tolerance ±0.5 mm | | | | | |
| | Weight | 150 g | | | | | |
| Safety | Cooling Method | Free air convection | | | | | |
| | Agency Approvals | IEC / EN 60950, EN 62368-1 | | | | | |
| EMC | EMI (Conducted & Radiated Emission) | EN 55032 class B | | | | | |
| | EMS (Noise Immunity) | EN 55024 | | | | | |

NOTE

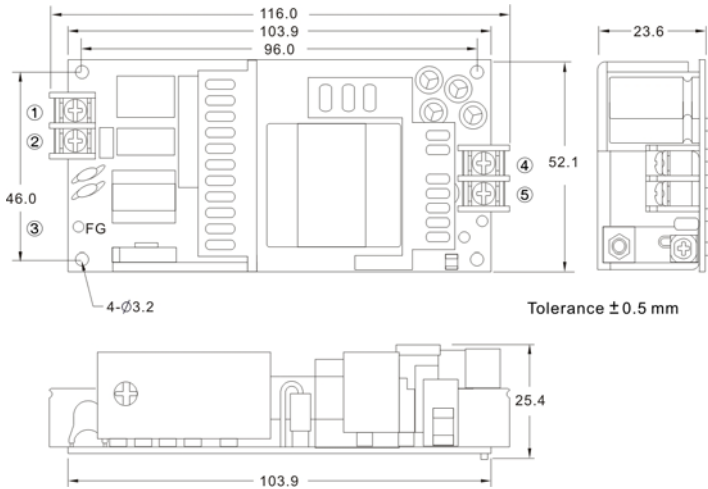
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors from Arch power supply.



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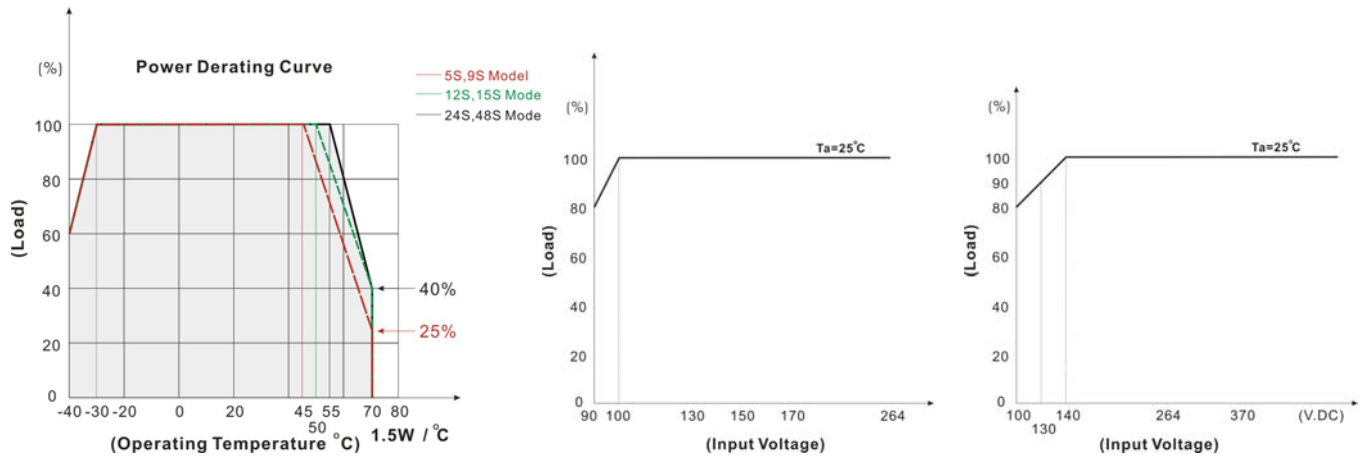
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MECHANICAL DIMENSIONS (Top View)



| Brands | | | | | |
|--------|-----------|------------------|---|---|---|
| PIN# | Single | Terminal | | | |
| 1 | AC IN (N) | ANYTEK YK-312-2P | | | |
| 2 | AC IN (L) | | | | |
| 3 | FG | — | — | — | — |
| 4 | +DC OUT | ANYTEK YK-312-2P | | | |
| 5 | -DC OUT | | | | |

DERATING



BLOCK DIAGRAM

