**AES60E SERIES**

**60 Watts**

**KEY FEATURES**
- Enclosed Switching Power Supply
- Universal Input: 90-264 VAC
- Single Output
- 5 VDC to 48 VDC Output
- Din Rail Kit For Optional
- 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.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>AES60E-5S</th>
<th>AES60E-9S</th>
<th>AES60E-12S</th>
<th>AES60E-15S</th>
<th>AES60E-24S</th>
<th>AES60E-48S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Output Wattage (W)</td>
<td>50W</td>
<td>60W</td>
<td>60W</td>
<td>60W</td>
<td>60W</td>
<td>60W</td>
</tr>
</tbody>
</table>

**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)
- Vibration: 10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.

**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 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 within Arch power supply.

MECHANICAL DIMENSION (Top View)

ASSEMBLY INSTRUCTIONS
*U Case  T=2.5mm

Customer is advised to screw into the threads no more than 2.5mm

BLOCK DIAGRAM

DERATING
AES60E SERIES

AC-DC Switching Power Supply

60 Watts

Din Rail Kit

AES60E-DRK

**PIN#**  **Single**

1. AC IN (N)
2. AC IN (L)
3. FG
4. +DC OUT
5. -DC OUT

Din Accessory

Tolerance ± 0.5 mm