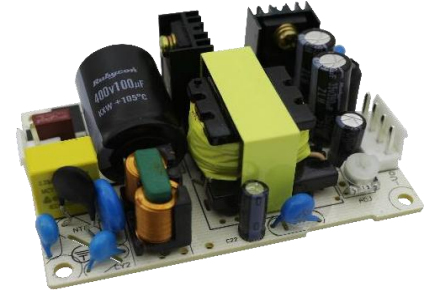


Features

1. Wide input range (90-264VAC)
2. Size 76.2*50.8*26.0mm, 3"*2"
3. Protection type: short circuit/over temperature/over load/over voltage
4. Operating temperature range -40°C to +70°C
5. 3000V isolation voltage
6. Built-in EMI filter: CLASS B
7. Suitable for CLASS I or CLASS II installations
8. 100% high temperature aging and testing
9. 3 years warranty



3 years
Warranty

Selection Guide

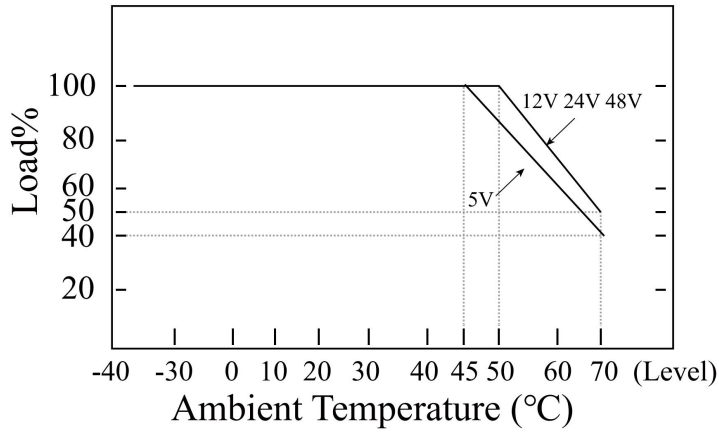
| Model | Input Voltage | Rated Power (W) | Output Voltage (V) | Voltage Adjustable Range (V) | Output Current (A) | Ripple & Noise (mVp-p) | Efficiency (%) |
|-----------|---------------|-----------------|--------------------|------------------------------|--------------------|------------------------|----------------|
| ADS-65-05 | 90-264VAC | 45 | 5 | 4.8-5.3 | 9 | 100 | 82 |
| ADS-65-12 | | 65 | 12 | 11.3-13.5 | 5.42 | 120 | 89 |
| ADS-65-15 | | 65 | 15 | 13.5-16.5 | 4.34 | 120 | 89 |
| ADS-65-24 | | 65 | 24 | 22.6-25.7 | 2.71 | 120 | 89 |
| ADS-65-48 | | 65 | 48 | 44.7-53.3 | 1.35 | 120 | 90 |

Specifications

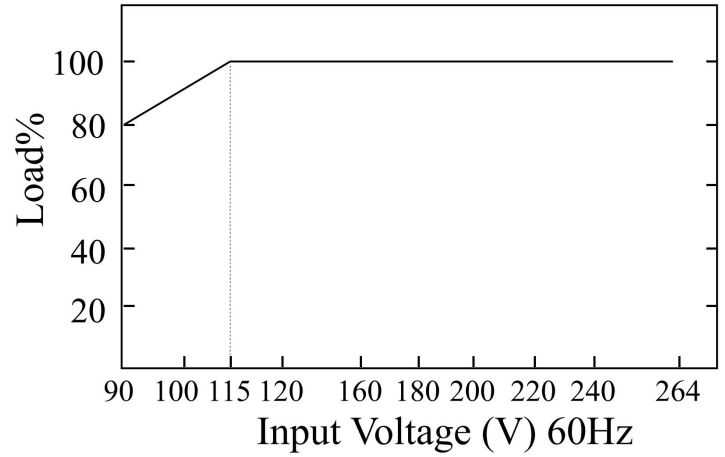
| | | | | | | | |
|---------------------------|--|--|-------|-------|-----------------------|-------|-------|
| OUTPUT | Voltage Tolerance | ±1.0% | | | 5V: ±2.0% | | |
| | Line Regulation | ±1.0% | | | | | |
| | Load Regulation | ±1.0% | | | | | |
| | Setup, Rise Time (Typ.) | 1000ms/230VAC at full load | | | | | |
| | Hold Up Time (Typ.) | 90ms/230VAC at full load | | | | | |
| INPUT | Voltage Range | 90-264VAC 100-370VDC | | | | | |
| | Current (Typ.) | 1.2A MAX/100VAC 0.6A MAX/240VAC | | | | | |
| | Inrush Current (Typ.) | Cold boot 40A/115VAC 60A/230VAC at full load | | | | | |
| | Leakage Current (Typ.) | <0.75mA/230VAC/60Hz | | | | | |
| PROTECTION | Over Load | ≥110% load, self-recovery after troubleshooting | | | | | |
| | Short Circuit | Hiccup mode, self-recovery after troubleshooting | | | | | |
| | Over Temperature | Reduced power output or no output | | | | | |
| | Over Voltage | Shut-off output | | | | | |
| | | Voltage | 5VDC | 12VDC | 15VDC | 24VDC | 48VDC |
| | | Range | ≤7.5V | ≤16V | ≤20V | ≤30V | ≤63V |
| ENVIRONMENT | Working Temp. | -40°C to +70°C (Refer to "Derating curve") | | | | | |
| | Working Humidity | 10-85%RH | | | | | |
| | Storage Temp., Humidity | -40°C to +105°C | | | | | |
| | Temp. Coefficient | 0.03%/ (0-50°C) | | | | | |
| | Vibration | 10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes | | | | | |
| SAFETY & EMC (NOTE 3.) | Safety Standards | IEC62368, EN62368, Design meet UL62368 | | | | | |
| | Isolation Voltage | I/P-O/P: 3000VAC | | | I/P-FG(CASE): 1500VAC | | |
| | | O/P-FG(CASE): 500VAC | | | | | |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC 25°C 70% RH | | | | | |
| | EMC Emission & Immunity | EN55011, EN55032 (CISPR32) CLASS B | | | | | |
| | ESD | IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV | | | | | |
| | RF | IEC/EN 61000-4-3 level 4 lev3 | | | | | |
| | EFT | IEC/EN 61000-4-4 level 4 4kV | | | | | |
| OTHERS | Surge | IEC/EN 61000-4-5 level 4 line to line 2kV/line to ground 4kV | | | | | |
| | MTBF | 165K hrs min. MIL-HDBK-217F (25°C) | | | | | |
| | Dimension | 76.2*50.8*26.0mm (L*W*H) | | | | | |
| | Weight | 92g | | | | | |
| | Package | 9 PCS/Box 12 Box/Carton | | | | | |
| NOTE | Carton Size | 360*300*250mm | | | | | |
| | 1. All parameters not specially mentioned, are measured when TA=25°C, humidity<75%, input nominal voltage and output rated load. | | | | | | |
| | 2. Measurement method of ripple & noise: Parallel line test method shall be adopted. Meanwhile, 0.1uF high-frequency ceramic capacitor and one 47uF electrolytic capacitor shall be connected in parallel at the terminal for measurement under 20Mhz bandwidth. | | | | | | |
| | 3. The power supply is regarded as a component in the system, and electromagnetic compatibility shall be confirmed in combination with the terminal equipment. | | | | | | |

Derating Curve

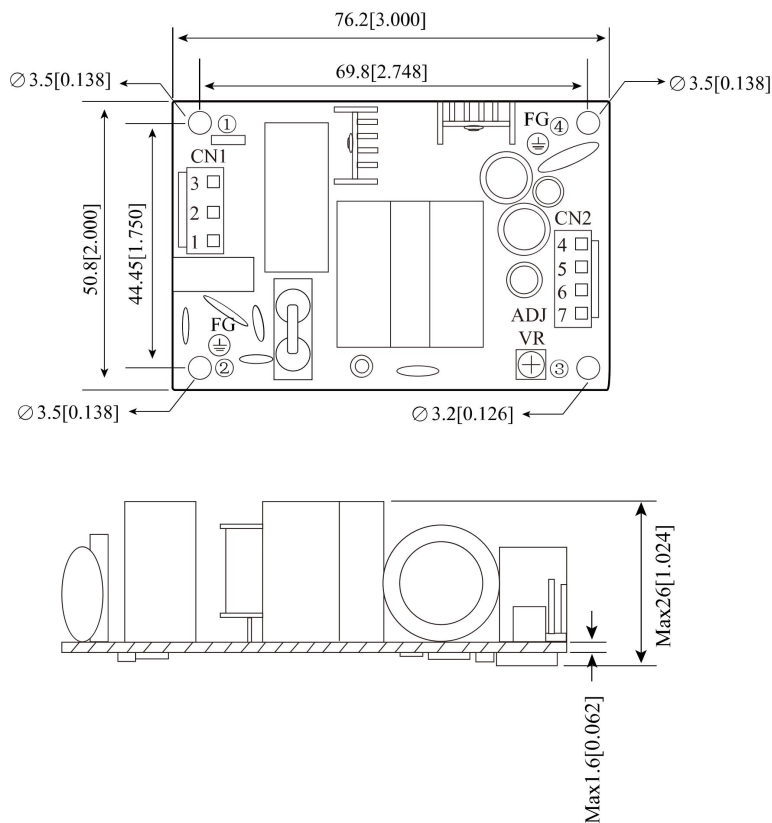
Temperature Derating Curve



Input Voltage Derating Curve

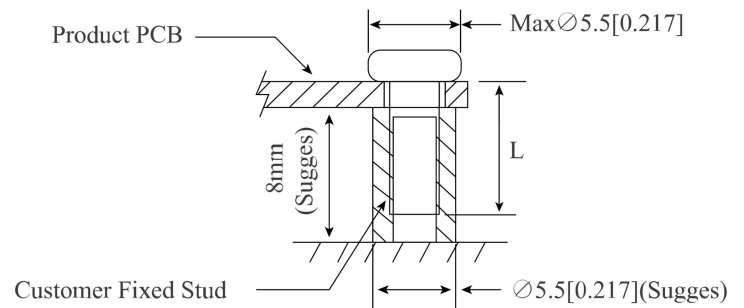


Dimensions & Function



| Pin Method | | | |
|------------|-----|----------|---|
| Connector | Pin | Function | Customer Connection End |
| CN1 | 1 | AC(N) | Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 OrEquivalent Products |
| | 2 | No Pin | |
| | 3 | AC(L) | |
| CN2 | 4 | +Vo | Connector:JST VHR Connector Terminals:JST SVH-21T-P1.1 Or Equivalent Products |
| | 5 | +Vo | |
| | 6 | -Vo | |
| | 7 | -Vo | |

| Installation location | Screw Specifications | L(Sugges) | Torque(max) |
|-----------------------|----------------------|-----------|-------------|
| ①-④ | M3 | 6mm | 0.4N ·m |



NOTE:

- Unit size: mm[inch] Unmarked tolerances: $\pm 0.5\text{mm}$
- CLASS I system: Mounting holes marked with \perp must be connected to safety earth
- CLASS II system: Unnecessary to connect with safety earth

Notes:

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at $T_a=25^{\circ}\text{C}$, humidity $<75\%\text{RH}$, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
6. AMCHARD reserves the right to make changes to the product at any time without notice.