



FEATURES:

- I/O Isolation 3000VAC
- Operating Temp: -40°C to +70°C
- Over current Protection
- Input: 85-305VAC, 47-63Hz, or 100-430VDC
- Low Ripple and Noise
- Over Voltage Protection
- Up to 85% efficiency
- Short Circuit Protection

Models Single output



| Model | Input Voltage (VAC/Hz) | Input Voltage (VDC) | Max Output wattage (W) | Output Voltage (V) | Output Current max (A) | Maximum capacitive load (μF) | Efficiency (%) |
|--------------|------------------------|---------------------|------------------------|--------------------|------------------------|------------------------------|----------------|
| | | | | | | | 230 VAC |
| AME15-3.3SJZ | 85-305/47-63 | 100-430 | 9.9 | 3.3 | 3 | 36000 | 74 |
| AME15-5SJZ | 85-305/47-63 | 100-430 | 14 | 5 | 2.8 | 20000 | 78 |
| AME15-9SJZ | 85-305/47-63 | 100-430 | 15 | 9 | 1.6 | 6000 | 79 |
| AME15-12SJZ | 85-305/47-63 | 100-430 | 15 | 12 | 1.25 | 3000 | 82 |
| AME15-15SJZ | 85-305/47-63 | 100-430 | 15 | 15 | 1 | 3000 | 82 |
| AME15-24SJZ | 85-305/47-63 | 100-430 | 15 | 24 | 0.625 | 900 | 84 |
| AME15-48SJZ | 85-305/47-63 | 100-430 | 15 | 48 | 0.32 | 370 | 85 |

Note:
*Add suffix “-ST” for optional screw terminal bottom plate , add suffix “-STD” for optional DIN Rail screw terminal bottom plate

Input Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|----------------------------------|----------------------------|---------|---------|-------|
| Current (full load) | 115 VAC | | 370 | mA |
| | 230 VAC | | 220 | mA |
| Inrush current <2ms (cold start) | 115 VAC | 10 | | A |
| | 230 VAC | 20 | | A |
| Leakage current | | | 0.25 | mA |
| External fuse | Recommended slow blow type | 2 | | A |

Output Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|------------------|--------------|---------|---------|--------|
| Voltage accuracy | | ±2 | | % |
| Line regulation | (LL-HL) | ±0.5 | | % |
| Load regulation | 10-100% load | ±1 | | % |
| Ripple & Noise | | | 100 | mV p-p |
| Hold-up time | 115 VAC | 15 | | ms |
| | 230 VAC | 80 | | ms |

Isolation Specifications

| Parameters | Conditions | Typical | Rated | Units |
|----------------------|-------------------------|---------|-------|-------|
| Tested I/O voltage | Input to Output, 60 sec | | 3000 | VAC |
| | Input to Ground | | 2000 | |
| Isolation resistance | | >1000 | | MΩ |

General Specifications

| Parameters | Conditions | Typical | Maximum | Units |
|--------------------------|--------------------|-------------------|---------|-----------|
| Switching frequency | | 65 | | KHz |
| Over current protection | | ≥110 | | % of Iout |
| Over voltage protection | | Zener Diode Clamp | | |
| Short circuit protection | | Auto recovery | | |
| Operating temperature | See derating curve | -40 to +70 | | °C |
| Maximum case temperature | | | 100 | °C |
| Storage temperature | | -40 to +105 | | °C |

General Specifications (continued)

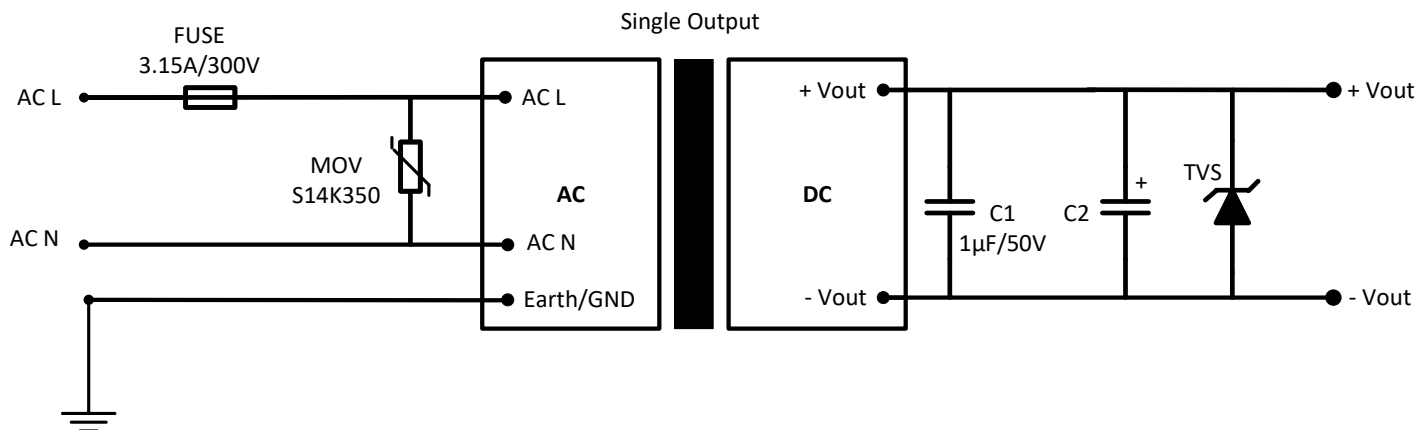
| Parameters | Conditions | Typical | Maximum | Units |
|-------------------------|--------------------------------------|--|---------|--------|
| Temperature coefficient | | ±0.02 | | % / °C |
| Cooling | | Free air convection | | |
| Humidity | Non condensing | | 95 | % RH |
| Case material | | Plastic (flammability to UL 94V-0) | | |
| Weight | Pin mountable | 85 | | g |
| | Screw terminal bottom plate | 135 | | |
| | DIN Rail screw terminal bottom plate | 175 | | |
| Dimensions (L x W x H) | Pin mountable | 62.0 x 45.0 x 22.5 mm (2.44 x 1.77 x 0.89 inches) | | |
| | Screw terminal bottom plate | 96.1 x 54.0 x 31.0 mm (3.78 x 2.13 x 1.22 inches) | | |
| | DIN Rail screw terminal bottom plate | 96.1 x 54.0 x 35.6 mm (3.78 x 2.13 x 1.40 inches) | | |
| MTBF | | > 300 000 hrs (MIL-HDBK -217F, t _a =+25°C)/ Full Load | | |

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage (115/230VAC) and at rated output load unless otherwise specified.

Safety Specifications

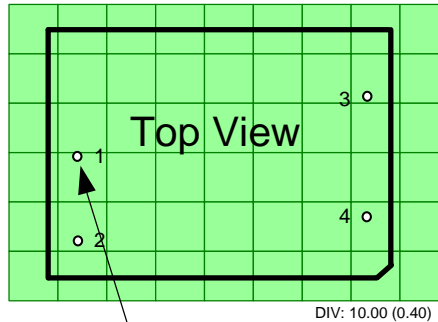
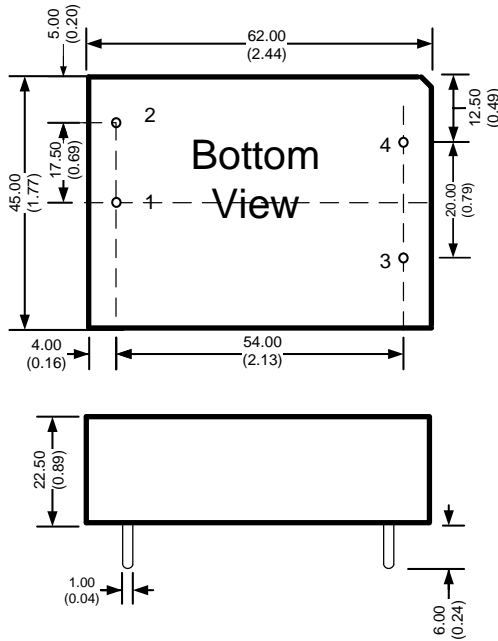
| Parameters | | |
|------------------|--|--|
| Agency approvals | CE, UL | |
| Standards | Information Technology Equipment | IEC/EN/UL 60950-1 |
| | EMI - Conducted and radiated emission | EN55022, class B EN55024: 2010 |
| | Electrostatic Discharge Immunity | IEC 61000-4-2: Contact ±6KV/Air ±8KV, Criteria B |
| | RF, Electromagnetic Field Immunity | IEC 61000-4-3: 10V/m, Criteria A |
| | Electrical Fast Transient/Burst Immunity | IEC 61000-4-4: ±2KV, Criteria B |
| | Surge Immunity | IEC 61000-4-5: ±1KV/±2KV, Criteria B |
| | RF, Conducted Disturbance Immunity | IEC 61000-4-6: 10Vrms, Criteria A |
| | Power frequency Magnetic Field Immunity | IEC 61000-4-8: 10A/m, Criteria A |
| | Voltage dips, Short Interruptions Immunity | IEC 61000-4-11: 0-70%, Criteria B |

Typical Application circuit



| Vout | C2 | TVS |
|----------|------------|-----|
| 3.3 & 5V | 680 µF/50V | 7A |
| 9V | 470 µF/50V | 12A |
| 12 & 15V | 220 µF/50V | 20A |
| 24V | 68 µF/50V | 30A |
| 48V | 33 µF/50V | 64A |

Dimensions

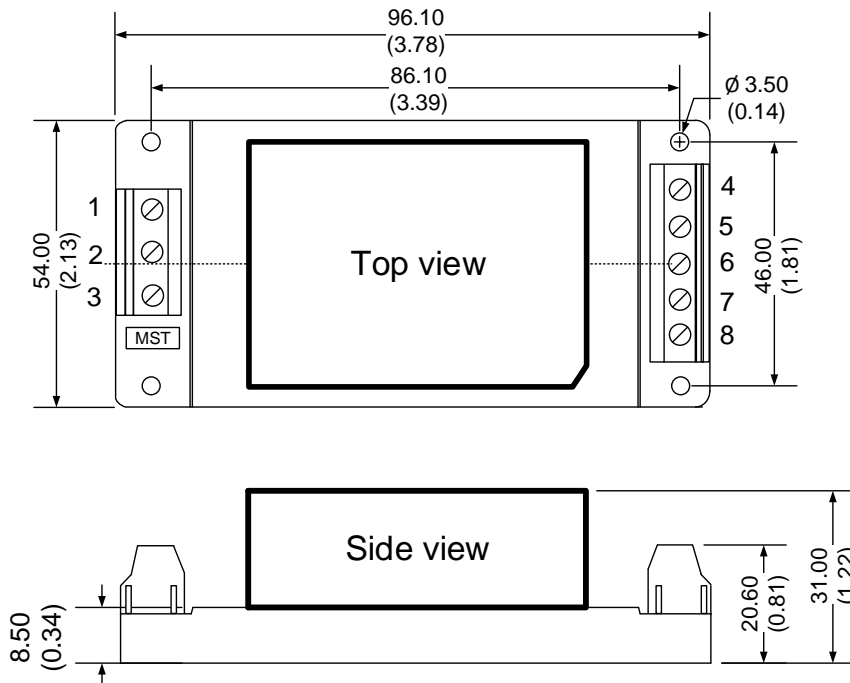


Dimensions mm (inch)
Case Tolerance ± 0.50 (± 0.02)
Pin Diameter 1.0 ± 0.10 (0.04 ± 0.004)

Pin Out Specifications

| Pin | Single |
|-----|--------------|
| 1 | AC Input (N) |
| 2 | AC Input (L) |
| 3 | - V output |
| 4 | + V output |

Dimensions with optional ST model

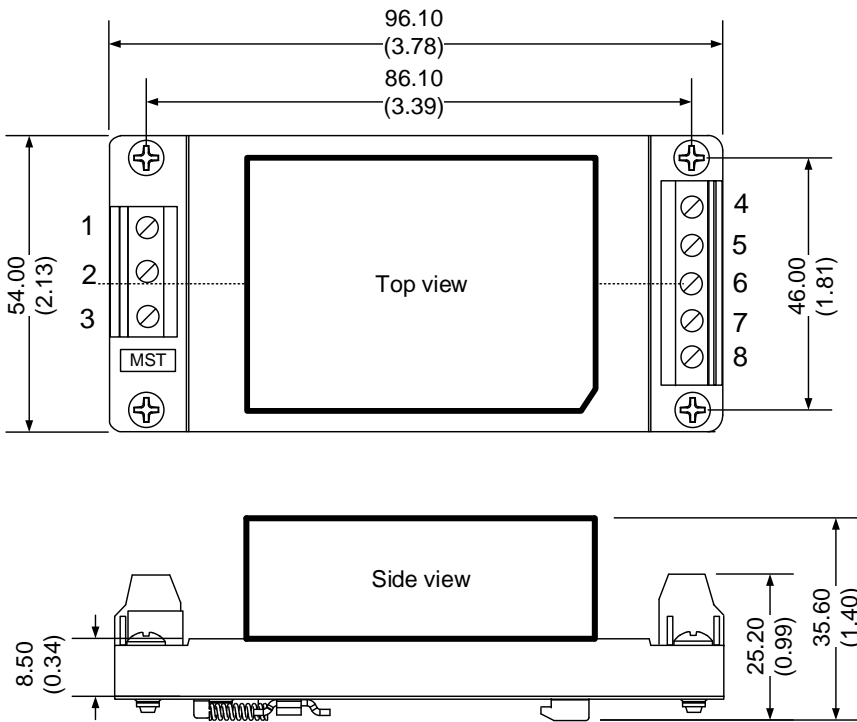


Pin Out Specifications

| Pin | Single |
|-----|---------------|
| 1 | Earth/Ground |
| 2 | AC Input (N) |
| 3 | AC Input (L) |
| 4 | - V output |
| 5 | No Connection |
| 6 | No Connection |
| 7 | No Connection |
| 8 | + V output |

Dimensions: mm (inch)
Case Tolerance: ± 1.00 (0.04)
Holding holes tolerance: ± 0.20 (0.01)
Wire gauge: 24-12AWG

Dimensions with optional STD model

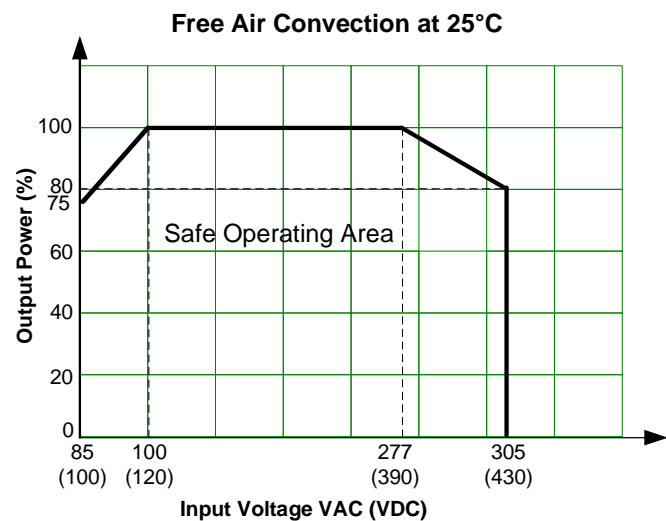
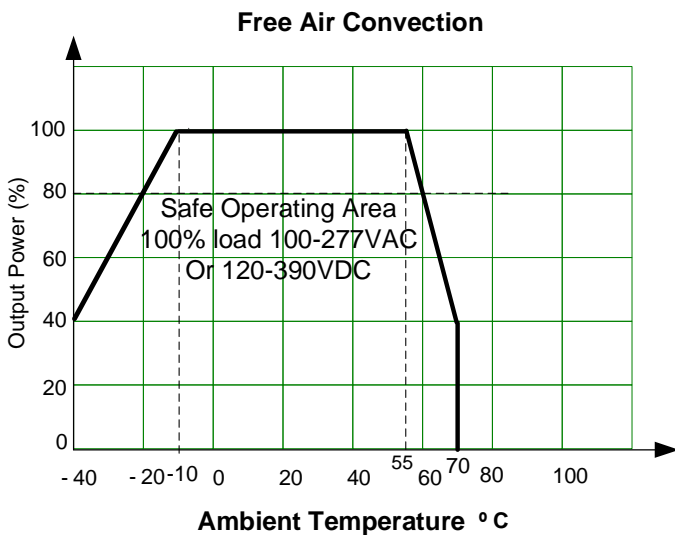


Pin Out Specifications

| Pin | Single |
|-----|---------------|
| 1 | Earth/Ground |
| 2 | AC Input (N) |
| 3 | AC Input (L) |
| 4 | - V output |
| 5 | No Connection |
| 6 | No Connection |
| 7 | No Connection |
| 8 | + V output |

Dimensions: mm (inch)
 General Tolerance: ± 1.00 (0.04)
 Holding holes tolerance: ± 0.20 (0.01)
 Wire gauge: 24-12AWG
 DIN rail type: TS35

Derating



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