



Typical Features

- ◆ Universal AC input 90~264VAC
- ◆ Protections: Short circuit / Overload / Over voltage/ Over temperature
- ◆ Can be installed on DIN rail TS-35/7.5 or 15
- ◆ The body width is only 30mm
- ◆ 100% full load burn-in test
- ◆ LED indicator for power on
- ◆ High reliability
- ◆ 3 years warranty
- ◆ Compliance to IEC/EN/UL 62368-1



Typical Product List

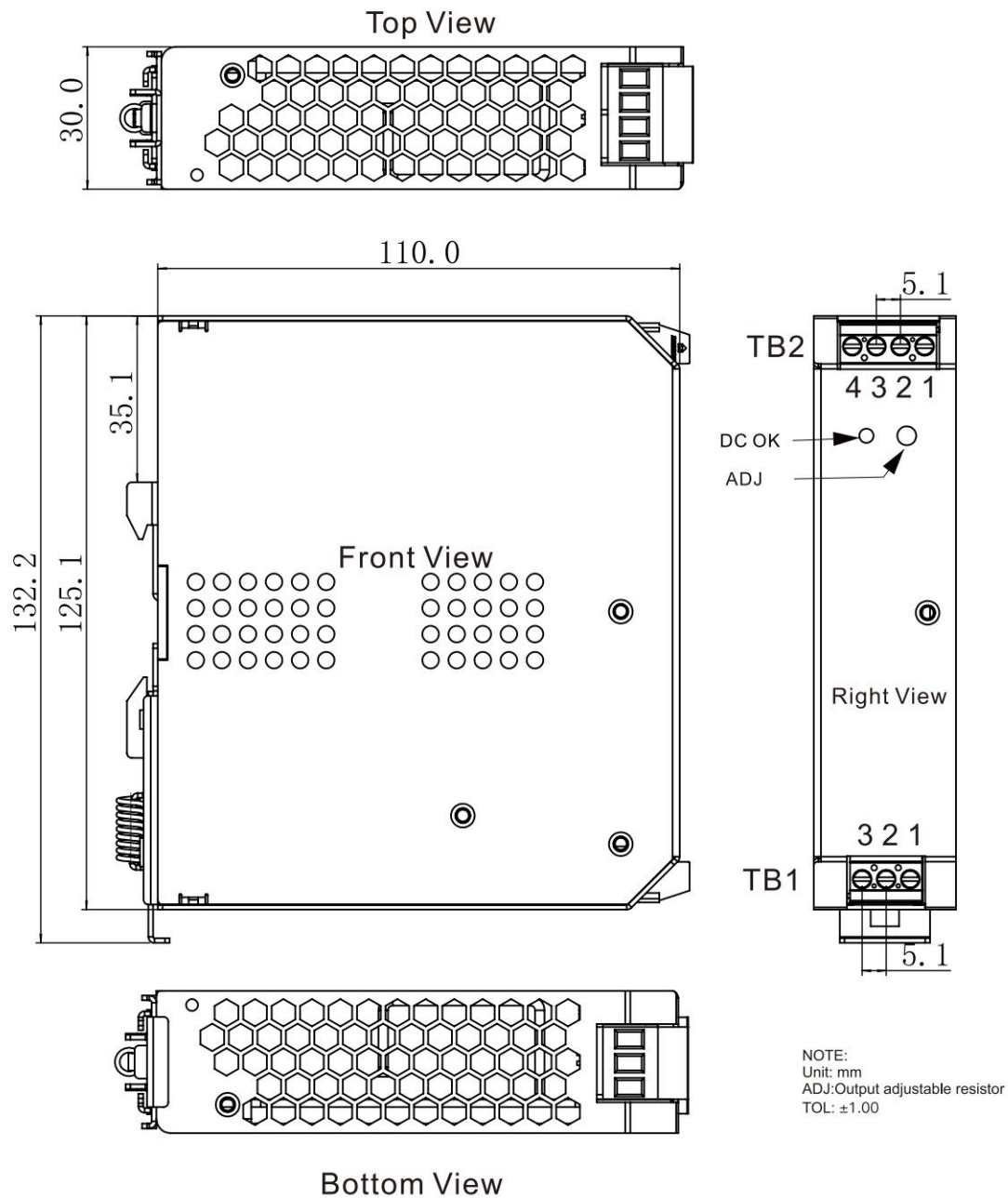
| MODEL | | AMDR-150-12 | AMDR-150-24 | AMDR-150-48 |
|--------------------|----------------------|--|------------------------|-------------|
| INPUT | VOLTAGE RANGE | 90~264VAC 127~370VDC(refer to 'static characteristic') | | |
| | FREQUENCY RANGE | 47~63Hz | | |
| | EFFICIENCY(Typ.) | 86% | 89% | 91% |
| | AC CURRENT(Typ) | 2.8A/115VAC | 1.6A/230VAC | |
| | INRUSH CURRENT(Typ.) | 30A/115VAC | 55A/230VAC(cold start) | |
| | LEAKAGE CURRENT | <1mA/240VAC | | |
| OUTPUT | DC VOLTAGE | 12V | 24V | 48V |
| | RATED CURRENT | 10A | 6.25A | 3.13A |
| | CURRENT RANGE | 0~10A | 0~6.25A | 0~3.13A |
| | RATED POWER | 120W | 150W | 150.24W |
| | RPPLE&NOISE(max) | 100mVp-p | 120mVp-p | 150mVp-p |
| | VOLTAGE ADJ.RANGE | 12~14V | 24~28V | 48~55V |
| | VOLTAGE TOLERANCE | ±1% | ±1% | ±1% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% |
| | OAD REGULATION | ±1.5% | ±1% | ±1% |
| | SETUP, RISE TIME | 500ms,50ms/230VAC | 500ms,50ms/115VAC | |
| HOLD UP TIME(Typ.) | 30ms/230VAC | 7ms/115VAC | | |
| PROTECTION | OVER LOAD | 105%~135% rated output power Protection type: constant current limiting when output voltage>50%Vo, otherwise hiccup, recovers automatically after fault condition removed | | |
| | OVER VOLTAGE | 15~18V | 29~33V | 56~65V |
| | OVER TEMPERATURE | Protection type: Shunt down, recovers after repower on | | |
| ENVIRONMENT | WORKING TEMP,HUMDITY | -20~+70°C (Refer to "Derating curve"),20~90%RH non-condensing | | |
| | STORAGE TEMP,HUMDITY | -40~+85°C,10~95%RH | | |
| | TEMP. COEFFICIENT | ±0.03%/°C(0~50°C) | | |
| | VBRATION | 10~500Hz,2G 10min./1 cycle, each along X、Y、Z axes | | |



| | | | | | |
|--|---|---|--|---|-------------------|
| Safety and electromagnetic compatibility | Safety standards | Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1 | | | |
| | Withstand voltage and isolation resistance | I/P-O/P:3KVac; 100MQ / 500Vdc / 25°C/ 70%RH | | | |
| | | I/P-FG: 2KVac; 100MQ/500Vdc / 25°C/70%RH | | | |
| | | O/P-FG: 0.5KVac; 100MQ / 500Vdc / 25°C/70%RH | | | |
| | Electromagnetic | Parameter | Standard | Test Level / Note | |
| | | Conducted emission | BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1 | | Class B |
| | | Radiated emission | BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1 | | Class B |
| | | Harmonic current | BS EN/EN61000-3-2,GB17625.1 | | Class A(≤80%load) |
| | | Voltage flicker | BS EN/EN61000-3-3 | | |
| | Electromagnetic compatibility immunity | BS EN/EN55035 | | | |
| Parameter | | Standard | Test Level /Note | | |
| ESD | | BS EN/EN61000-4-2 | | Level 4, 8KV air, Level 2,4KV contact, criteria A | |
| RF field susceptibility | | BS EN/EN61000-4-3 | | Level 3, criteria A | |
| EFT bursts | | BS EN/EN61000-4-4 | | Level 3, criteria A | |
| Surge susceptibility | | BS EN/EN61000-4-5 | | Level 3,1KV/L-N,2KV/L/N-FG criteria A | |
| Conducted susceptibility | | BS EN/EN61000-4-6 | | Level 3, criteria A | |
| Magnetic field immunity | | BS EN/EN61000-4-8 | | Level 4, criteria A | |
| OTHERS | MTBF | ≥400Khrs ML-HDBK-217F(25°C) | | | |
| | DIMENSION | 30*125.1*110mm(W*H*D) | | | |
| | PACKING | 0.55Kg; 24pcs/ 14.2Kg/ 1.34CUFT | | | |
| NOTE | <p>1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load</p> <p>6.Length of set up time is measured at cold frst start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</p> <p>7.The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft)</p> <p>8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The ftnal equipment must be re-confirmed that it stil meets EMC directives.</p> <p>9. Installation clearances:40mm on top,20mm on the bottom,5mm on the left and right side are recommended when loaded permanently with ful power.In case the adjacent device is a heat source, 15mm dlearance is recommended.</p> | | | | |



Dimension and Pin Specification



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
Terminal Pin No. Assignment

| TB1 | | TB2 | |
|---------|------------|---------|--------------|
| Pin No. | Assignment | Pin No. | Assignment |
| 1 | AC/L | 1,2 | DC output -V |
| 2 | AC/N | 3,4 | DC output +V |
| 3 | FG | | |



Product Characteristic Curve

