

FEATURES

1. Universal AC input /Full range
2. Withstand 300VAC surge input for 5 second
3. No load power consumption <0.3W
4. Miniature size and 1U Low profile
5. High operating temperature up to 70°C
6. Protections: Short circuit /Over load /Over voltage
7. Cooling by free air convection
8. Operating altitude up to 5000 meters
9. Withstand 5G vibration test
10. High efficiency, long life and high reliability
11. LED indicator for power on
12. 100%full load burn-in test



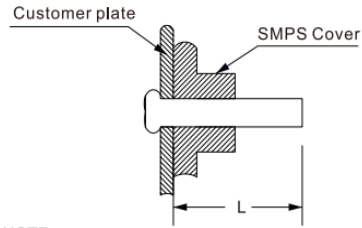
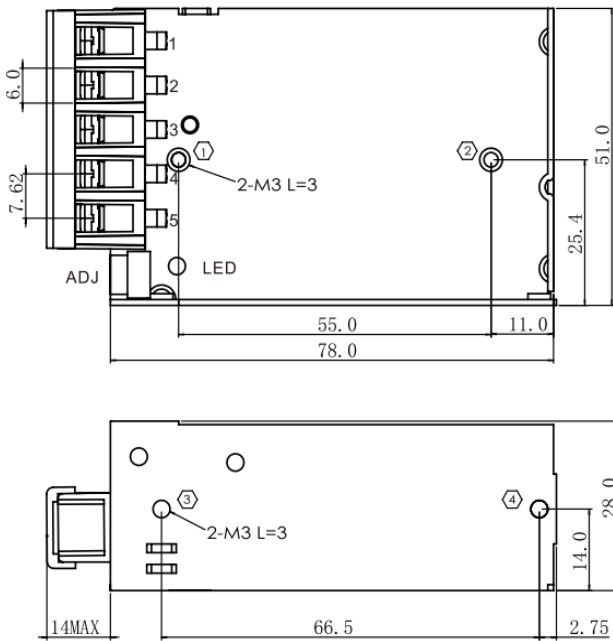
**3 years
Warranty**

Specification

| MODEL | | RAM35-05 | RAM35-12 | RAM35-15 | RAM35-24 | RAM35-48 |
|-------------|---------------------------|---|------------|--------------|------------|------------|
| INPUT | VOLTAGE RANGE | 85~264Vac 120~370Vdc(refer to 'static characteristic') | | | | |
| | FREQUENCY RANGE | 47~63Hz | | | | |
| | EFFICIENCY(Typ.) | 83% | 86% | 86% | 89.5% | 90% |
| | AC CURRENT(Typ.) | 0.7A/115Vac 0.42A/230Vao | | | | |
| | INRUSH CURRENT(Typ.) | 50A/230Vac (cold start) | | | | |
| | LEAKAGE CURRENT | <0.75mA/240Vac | | | | |
| OUTPUT | DC VOLTAGE | 5V | 12V | 15V | 24V | 48V |
| | RATED CURRENT | 6A | 3A | 2.4A | 1.5A | 0.8A |
| | CURRENT RANGE | 0-6A | 0~3A | 0~2.4A | 0~1.5A | 0~0.8A |
| | RATED POWER | 30W | 36W | 36W | 36W | 38.4W |
| | RIPPLE&NOISE(max.) | 80mVp-p | 120mVp-p | 120mVp-p | 150mVp-p | 200mVp-p |
| | VOLTAGE ADJ.RANGE | 4.5~5.5V | 10.2~13.8V | 13.5~18V | 21.6~28.8V | 43.2~52.8V |
| | VOLTAGE TOLERANCE | ±2% | ±1% | ±1% | ±1% | ±1% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | LOAD REGULATION | ±1% | ±0.5% | ±0.5% | ±0.5% | ±0.5% |
| | SETUP,RISE TIME | 1000ms,50ms/230Vac 2000ms,100ms/115Vac at full load | | | | |
| | HOLD UP TIME(Typ.) | 30ms/230Vac 12ms/115Vac at full load | | | | |
| PROTECTION | OVER LOAD | 105%~160% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | OVER VOLTAGE | 5.75~6.9V | 13.8~16.2V | 18.75~21.75V | 28.8-33.6V | 55.2~64.8V |
| ENVIRONMENT | WORKING TEMP | -30~+70°C(Refer to 'derating curve') | | | | |
| | WORKING HUMIDITY | 20~90% RH non-condensing | | | | |
| | STORAGE TEMP, HUMIDITY | -40~+85°C,10~95% RH non-condensing | | | | |
| | TEMP.COEFFICIENT | ±0.03%/°C(0~50°C) | | | | |
| | VIBRATION | 10~500Hz,5G 10min./1 cycle,period for 60 min.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;100M Ω /500Vdc/25°C/70%RH | | |
| | | I/P-FG:2KVac;100M Ω /500Vdc /25°C/70%RH | | |
| | | O/P-FG:0.5KVac;100M Ω /500Vdc /25°C/70%RH | | |
| | Electromagnetic compatibility emission | 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 cwen | BS EN/EN61000-3-2,GB17625.1 | Class A |
| | | 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 | |
| Voltage dips and interruptions | | BS EN/EN61000-4-11 | >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods | |
| OTHERS | MTBF | ≥ 760 Khrs MIL-HDBK-217F(25°C) | | |
| | DIMENSION | 78*51*28mm(L*W*H) | | |
| | PACKING | 0.18Kg;60pcs/11.8Kg/0.58 CUFT | | |
| 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 first 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 final equipment must be re-confirmed that it still meets EMC directives</p> | | | |

Mechanical specification

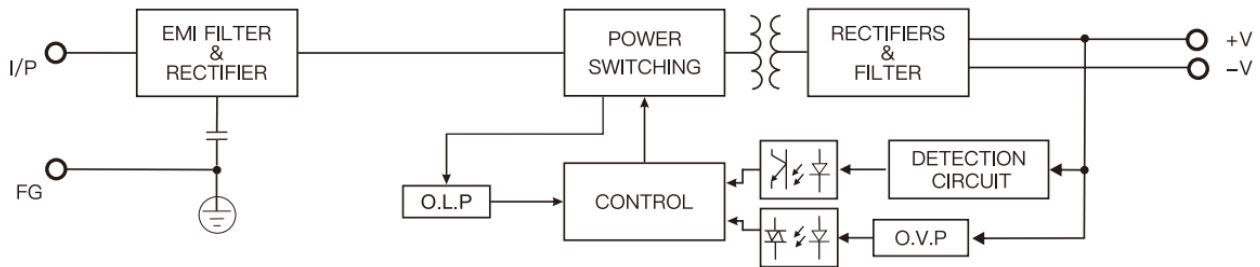


NOTE:
Unit: mm
ADJ: Output adjustable resistor
Torque: M3, 0.5N · m Max
TOL: ±1.00

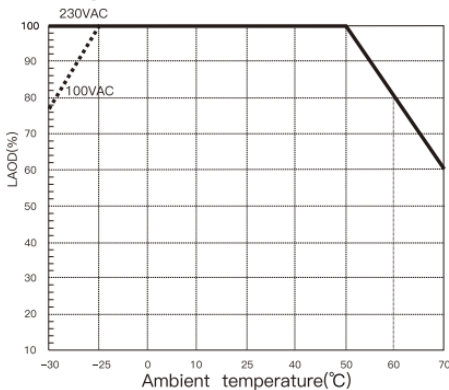
| Position No. | Screw Size | L max | Torque max |
|--------------|------------|-------|------------|
| 1-2 | M3 | 3mm | 0.4N · m |
| 3-4 | | | |

| Screw Terminal | | | |
|----------------|------------|---------|-------------|
| Pin No. | Assignment | Pin No. | Assignment |
| 1 | AC/L | 4 | DC OUTPUT - |
| 2 | AC/N | 5 | DC OUTPUT + |
| 3 | FG | | |

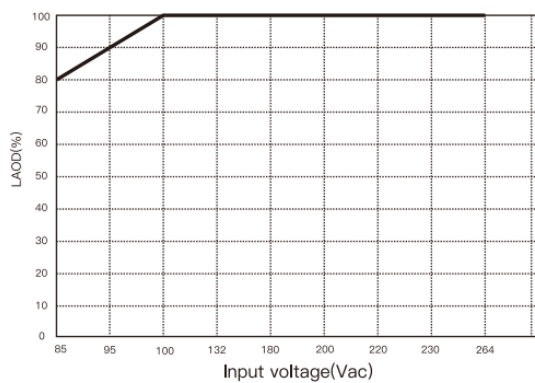
Block diagram



Derating curve



Static characteristics



NORPAS-POWER TECHNOLOGY CO., LTD.

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Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.norpas-power.com

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