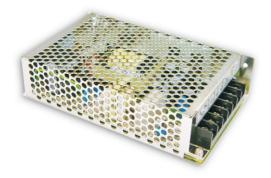




**SPECIFICATION** 

## 85W Dual Output Switching Power Supply

RID-85 series



### Features:

- Isolated output & GND for CH1,CH2
- · Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- . Cooling by free air convection
- · LED indicator for power on
- 100% full load burn-in test
- All using 105<sup>°</sup>C long life electrolytic capacitors
- · Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability
- 3 years warranty







#### MODEL RID-85B RID-85A **OUTPUT NUMBER** CH1 CH<sub>2</sub> CH1 CH2 DC VOLTAGE 5V 12V 5V 24V RATED CURRENT 8A 4A 8A 2A **CURRENT RANGE** Note.6 2 ~ 10A 0.3 ~ 5A 2 ~ 10A 0.3 ~ 2.5A RATED POWER Note.6 88W 88W RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p 120mVp-p 80mVp-p OUTPUT VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V CH1: 4 75 ~ 5 5V ±2.0% ±5.0% VOLTAGE TOLERANCE Note.3 ±2.0% +8.0% LINE REGULATION Note.4 ±0.5% ±1.0% ±0.5% ±1.0% Note.5 ±1.0% ±5.0% LOAD REGULATION $\pm 3.0\%$ ±1.0% SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 18ms/115VAC at full load 100ms/230VAC **VOLTAGE RANGE** 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) 88 ~ 264VAC **FREQUENCY RANGE** 47 ~ 63Hz EFFICIENCY(Typ.) 80% 81% INPUT AC CURRENT (Typ.) 2.5A/115VAC 1 5A/230VAC INRUSH CURRENT (Typ.) COLD START 40A/230VAC LEAKAGE CURRENT <2mA / 240VAC 110 ~ 150% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** CH1: 5.75 ~ 6.75V **OVER VOLTAGE** Protection type: Hiccup mode, recovers automatically after fault condition is removed -25 ~ +70°C (Refer to output load derating curve) WORKING TEMP. **WORKING HUMIDITY** 20 ~ 90% RH non-condensing ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C) on +5V output TEMP. COEFFICIENT VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC **SAFETY &** I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC ISOLATION RESISTANCE **EMC EMI CONDUCTION & RADIATION** Compliance to EN55022 (CISPR22) Class B (Note 7) HARMONIC CURRENT Compliance to EN61000-3-2,-3 **EMS IMMUNITY** Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2), heavy industry level, criteria A MTRF 239.4Khrs min. MIL-HDBK-217F (25°C) OTHERS DIMENSION 159\*97\*38mm (L\*W\*H) 0.6Kg; 24pcs/15.4Kg/0.7CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load. 6. Each output can work within current range. But total output power can't exceed rated output power. 7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets 8. 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.





# 85W Dual Output Switching Power Supply

# RID-85 series

