



■ Features :

- Universal AC input / Full range
- Built-in active PEC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5"x3" compact size
- Free air convection for 100W and 150W with 20.5 CFM forced air
- Medical safety approved (2 x MOPP between primary to secondary)
- With power good and fail signal output
- * No load power consumption under 0.75W by PS-ON control (G model)
- * Standby 5V@0.8A with fan, @0.6A without fan (G model)
- * Suitable for BF application with appropriate system consideration
- 3 years warranty

G: With 5Vsb & no load power consumption < 0.75 W Blank: Basic function (without 5Vsb)











+ (**P**) c**9 1** ∪s (**C B** (**C SPECIFICATION** MODEL RPD-160B **OUTPUT NUMBER** CH1 CH2 DC VOLTAGE 5V 24V RATED CURRENT (20.5CFM) 12A 3.6A 02~28A CURRENT RANGE (convection) 1 ~ 6A CURRENT RANGE (20.5CFM) 1 ~ 12A 0.2 ~ 3.6A RATED POWER (convection) Note.7 100.2W RATED POWER (20.5CFM) Note.8 150.4W OUTPUT RIPPLE & NOISE (max.) Note.2 80mVp-p 200mVp-p VOLTAGE ADJ. RANGE CH1: 5 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±2.5% $\pm 6.0\%$ LINE REGULATION $\pm 0.5\%$ $\pm 1.0\%$ LOAD REGULATION $\pm 1.5\%$ $\pm 3.0\%$ 3500ms, 30ms/115VAC at full load SETUP, RISE TIME 1800ms, 30ms/230VAC HOLD UP TIME (Typ.) 16ms/230VAC/115VAC at full load VOLTAGE RANGE 90 ~ 264VAC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.93/230VAC PF>0.98/115VAC at full load INPUT 84% EFFICIENCY (Typ.) AC CURRENT (Typ.) 1.7A/115VAC 0.9A/230VAC INRUSH CURRENT (Tvp.) COLD START 35A/115VAC 70A/230VAC LEAKAGE CURRENT Note.9 Earth leakage current < 200µA/264VAC, Touch current < 100µA/264VAC 105 ~ 135% rated output power OVERLOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed OVER VOLTAGE Protection type : Shut down o/p voltage, re-power on to recover PROTECTION $105^{\circ}C$ (TSW1) detect on heatsink of power transistor 90°C (TSW2) detect on heatsink of power transistor OVER TEMPERATURE Protection type: (TSW1)Shut down o/p voltage, recovers automatically after temperature goes down Protection type: (TSW2)Shut down o/p voltage, re-power on to recover 5VSB : 5V@0.6A without fan, 0.8A with fan 20.5CFM ; tolerance \pm 2%, ripple : 50mVp-p(max.) 5V STANDBY (G model) PS-ON INPUT SIGNAL (G model) Power on: PS-ON = "Hi" or " > 2 ~ 5V" : Power off: PS-ON = "Low" or " < 0 ~ 0.5V" FUNCTION POWER GOOD / POWER FAIL | 500ms>PG>10ms PF>1ms -20 ~ +70°C (Refer to "Derating Curve") WORKING TEMP. **WORKING HUMIDITY** 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY ENVIRONMENT TEMP. COEFFICIENT ±0.03%/°C (0~50°C) 10 ~ 500Hz, 2G 10min./1cvcle, 60min, each along X, Y, Z axes VIBRATION SAFETY STANDARDS ANSI/AAMI ES60601-1, TUV EN60601-1 approved ISOLATION LEVEL Primary-Secondary: 2xMOPP. Primary-Earth:1xMOPP. Secondary-Earth:1xMOPP SAFETY & WITHSTAND VOLTAGE I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC **EMC** (Note 4) ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC EMISSION** Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B, EN61000-3-2,-3 EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A MTBF MIL-HDBK-217F (25°C) 196.3K hrs min. OTHERS DIMENSION 127*76.2*34.6mm (L*W*H) 0.33Kg; 36pcs/12.9Kg/0.79CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 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. 4. 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 EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 5. HS1,HS2 & HS3 can not be shorted.

- 6. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 7. The rated power includes 5Vsb @ 0.6A 8. The rated power includes 5Vsb @ 0.8A
- 9. Touch current was measured from primary input to DC output.



