

150W Single Output with PFC Function

HRP-150 series



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage / Over temperature
- . Cooling by free air convection
- · Built-in constant current limiting circuit
- 1U low profile 38mm
- · Built-in remote sense function
- 5 years warranty



SPECIFICATION UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-MODEL HRP-150-5 HRP-150-3.3 HRP-150-7.5 HRP-150-12 HRP-150-15 HRP-150-24 HRP-150-36 HRP-150-48 DC VOLTAGE 3.3V 5V 7.5V 12V 24V 36V 48V RATED CURRENT 30A 26A 20A 13A 10A 6.5A 4.3A 3.3A **CURRENT RANGE** 0 ~ 30A 0 ~ 26A 0 ~ 20A 0 ~ 13A 0 ~ 10A 0 ~ 6.5A 0 ~ 4.3A 0 ~ 3.3A RATED POWER 130W 150W 156W 150W 156W 154 8W 158 4W RIPPLE & NOISE (max.) Note.2 80mVp-p 80mVp-p 100mVp-p 120mVp-p 150mVp-p 150mVp-p 200mVp-p 240mVp-p OUTPUT **VOLTAGE ADJ. RANGE** 2.8 ~ 3.8V 4.3 ~ 5.8V 6.8 ~ 9V 10.2 ~ 13.8V 13.5 ~ 18V 21.6 ~ 28.8V 28.8 ~ 39.6V 40.8 ~ 55.2V **VOLTAGE TOLERANCE Note.3** $\pm 2.5\%$ ±2.5% ±2.5% ±1.5% ±1.5% ±1.5% ±1.5% ±1.5% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.3% ±0.3% ±0.2% ±0.2% ±0.2% LOAD REGULATION ±1.0% ±1.0% ±1.0% ±0.5% ±0.5% ±0.5% $\pm 0.5\%$ $\pm 0.5\%$ SETUP. RISE TIME 3000ms, 50ms/230VAC 3000ms, 50ms/115VAC at full load 16ms/230VAC 16ms/115VAC at full load HOLD UP TIME (Typ.) 120 ~ 370VDC **VOLTAGE RANGE** Note.5 85 ~ 264VAC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0.95/230VAC PF>0.99/115VAC at full load 85% INPUT **EFFICIENCY (Typ.)** 87% 88% 88% 88% 89% 89% 78.5% AC CURRENT (Typ.) 1.7A/115VAC 0.9A/230VAC INRUSH CURRENT (Typ.) 35A/115VAC 70A/230VAC LEAKAGE CURRENT <1mA/240VAC 105 ~ 135% rated output power **OVERLOAD** Protection type: Constant current limiting, recovers automatically after fault condition is removed 3.96 ~ 4.62V | 6 ~ 7V 9.4 ~ 10.9V 14.4 ~ 16.8V 18.8 ~ 21.8V | 30 ~ 34.8V 41.4 ~ 48.6V 57.6 ~ 67.2V **PROTECTION OVER VOLTAGE** Protection type: Shut down o/p voltage, re-power on to recover **OVER TEMPERATURE** Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP. -40 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing **WORKING HUMIDITY** ENVIRONMENT -50 ~ +85°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT $\pm 0.04\%$ /°C (0 ~ 50°C) 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes VIBRATION **SAFETY STANDARDS** UL62368-1, TUV BS EN/EN62368-1, AS/NZS62368.1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **SAFETY &** ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH **EMC** (Note 4) **EMC EMISSION** Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 **EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55035,BS EN/EN61000-6-2,heavy industry level,EAC TP TC 020 MTBF 1742.7K hrs min. Telcordia SR-332 (Bellcore); 238.9K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 159*97*38mm (L*W*H) **PACKING** 0.61Kg; 24pcs/15.6Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F 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. 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. For guidance on how to

perform these EMC tests, please refer to "EMI testing of component power supplies. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

5. Derating may be needed under low input voltages. Please check the derating curve for more details.

6. Strongly recommended that external output capacitance should not exceed 5000uF. (Only for: HRP-150-3.3/-5/-7.5/-12/-15)



