

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











■ 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

FII P C SU US A CBCE

SPECIFICATION MODEL HRP-200-15 HRP-200-24 HRP-200-36 HRP-200-48 HRP-200-3.3 HRP-200-5 HRP-200-7.5 HRP-200-12 DC VOLTAGE 3.3V 5V 7.5V 12V 15V 24V 36V 48V RATED CURRENT 40A 35A 26.7A 16.7A 13.4A 8 4A 5 7A 4 3A **CURRENT RANGE** 0 ~ 40A 0 ~ 35A 0 ~ 26.7A 0~16.7A 0 ~ 13.4A 0~8.4A 0 ~ 5.7A 0 ~ 4.3A RATED POWER 132W 175W 200.3W 200.4W 201W 201.6W 205.2W 206.4W RIPPLE & NOISE (max.) Note.2 80mVp-p 90mVp-p 100mVp-p 120mVp-p 150mVp-p 150mVp-p 250mVp-p 250mVp-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** ±2.0% ±2.0% ±2.0% ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% LINE REGULATION ±0.5% ±0.5% ±0.5% $\pm 0.3\%$ ±0.3% ±0.2% ±0.2% ±0.2% LOAD REGULATION ±1.5% ±1.0% ±1.0% $\pm 0.5\%$ ±0.5% ±0.5% ±0.5% ±0.5% SETUP. RISE TIME 1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load HOLD UP TIME (Typ.) 16ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** Note.5 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF>0 95/230VAC PF>0.99/115VAC at full load 84% 86% 88% INPUT **EFFICIENCY (Typ.)** 88% 89% 89% 80% AC CURRENT (Typ.) 2.1A/115VAC 1.1A/230VAC INRUSH CURRENT (Typ.) 35A/115VAC 70A/230VAC LEAKAGE CURRENT <1.2mA/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 -40 ~ +70°C (Refer to "Derating Curve") WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -40 ~ +85°C, 10 ~ 95% RH **ENVIRONMENT** STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT $\pm 0.03\%$ /°C (0 ~ 50°C) **VIBRATION** 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes UL60950-1, TUV EN60950-1, EAC TP TC 004 approved SAFFTY STANDARDS 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) **FMC FMISSION** Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 **EMC IMMUNITY** Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level, criteria A, EAC TP TC 020 **MTBF** 209.4K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 199*98*38mm (L*W*H) 0.77Kg; 18pcs/14.9Kg/0.9CUFT **PACKING** 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 0.1uf & 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. 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 http://www.meanwell.com) 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).



