

E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

50W Open Frame type Single output power supply > LPS-50



■ Features :

- · Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- . Cooling by free air convection
- Small and compact size
- · Built-in remote ON-OFF control
- . LED indicator for power on
- 100% full load burn-in test
- Low profile:23mm thickness
- · 2 years warranty



SPECIFICATION MODEL LPS-50-3.3 LPS-50-5 LPS-50-12 LPS-50-15 LPS-50-24 LPS-50-48 DC VOLTAGE 3.3V 5V 12V 15V 24V 48V RATED CURRENT 10A 10A 4.2A 3.4A 2.1A 1.1A **CURRENT RANGE** 0~12A 0~12A 0~5A 0~4.1A 0~2.5A 0~1.3A RATED POWER 33W 50W 50.4W 51W 50.4W 52.8W PEAK LOAD(10sec.) Note.4 39.6W 60W 60W 61.5W 60W 62.4W RIPPLE & NOISE (max.) Note.2 50mVp-p 50mVp-p 80mVp-p 80mVp-p 80mVp-p 100mVp-p **OUTPUT** 4.5 ~ 5.5V 10.8 ~ 13.2V 13.5 ~ 16.5V 21.6 ~ 27.2V 43.2 ~ 52.8V **VOLTAGE ADJ. RANGE** 3~3.6V $\pm 2.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ VOLTAGE TOLERANCE Note.3 ±3.0% $\pm 3.0\%$ $\pm 2.0\%$ LINE REGULATION $\pm 1.0%$ $\pm 1.0%$ $\pm 1.0%$ $\pm 1.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ LOAD REGULATION $\pm 3.0\%$ $\pm 2.0\%$ $\pm 2.0\%$ $\pm 1.0\%$ $\pm 1.0\%$ SETUP, RISE TIME 100ms, 40ms/230VAC 100ms, 40ms/115VAC at full load HOLD UP TIME (Typ.) 70ms/230VAC 12ms/115VAC at full load **VOLTAGE RANGE** 90 ~ 264VAC 127 ~ 370VDC **FREQUENCY RANGE** 47~63Hz EFFICIENCY(Typ.) 75% 81% 82% 84% 85% 86% INPUT 115VAC 0.9A 1.2A AC CURRENT 0.8A (Typ.) 230VAC 0.6A INRUSH CURRENT (Typ.) COLD START 18A/115VAC 35A/230VAC LEAKAGE CURRENT <1mA / 240VAC 122 ~ 160% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed PROTECTION 57.6 ~ 67.2V 5.75 ~ 6.75V 13.8 ~ 16.2V 17.25 ~ 20.25V 27.6 ~ 32.4V **OVER VOLTAGE** Protection type: Hiccup mode, recovers automatically after fault condition is removed RC+/RC-: 0 ~ 0.8V power on; 4 ~ 10V power off FUNCTION **REMOTE ON/OFF** WORKING TEMP -20 ~ +70°C (Refer to "Derating Curve") **WORKING HUMIDITY** 20 ~ 90% RH non-condensing -20 ~ +85°C. 10 ~ 95% RH ENVIRONMENT | STORAGE TEMP., HUMIDITY ±0.04%/°C (0~50°C) TEMP. COEFFICIENT 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes VIBRATION SAFETY STANDARDS UL62368-1, TUV EN62368-1, 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 5) **EMC EMISSION** 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, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020 MTBF 341.7Khrs min. MIL-HDBK-217F (25°C' **OTHERS** DIMENSION 195*55*23mm (L*W*H) 0.24Kg; 48pcs/12.5Kg/0.87CUFT 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. 33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 5. 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." 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).



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