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6. Please remove the component D1 before conducted Hipot test.

■ Features :

- Universal AC input / Full range(up to 295VAC)
- · Built in active PFC function
- · Constant Voltage design
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- U-bracket low profile:33mm
- ZVS technology to reduce power dissipation
- · 3 years warranty

AL. (F) (**E**

SPECIFICATION USP-150-48 MODEL USP-150-12 USP-150-15 USP-150-24 USP-150-36 DC VOLTAGE 12V 15V 24V 36V 48V 4.2A RATED CURRENT 12.5A 10A 6 3A 3.2A **CURRENT RANGE** 0 ~ 12.5A 0 ~ 10A 0 ~ 6.3A 0 ~ 4.2A 0 ~ 3.2A RATED POWER 150W 151.2W 151.2W 153.6W 150W 150mVp-p 150mVp-p 250mVp-p OUTPUT RIPPLE & NOISE (max.) Note.2 100mVp-p 250mVp-p **VOLTAGE ADJ. RANGE** 11.0~13.2V 13 5~16 5V 21.6~26.4V 32 4~39 6V 43.2~52.8V VOLTAGE TOLERANCE Note.3 ±2.0% ±2.0% ±2.0% ±2.0% ±2.0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% LOAD REGULATION ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% SETUP, RISE TIME 2000ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load HOLD UP TIME (Typ.) 16ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** Note.4 90 ~ 295VAC 127 ~ 417VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF≧0.98/115VAC PF≧0.96/230VAC PF≧0.94/277VAC at full load INPUT EFFICIENCY (Typ.) 91.5% 91.5% 93% 93% 93% 1A/230VAC 0.7A/277VAC AC CURRENT (Typ.) 2A/115VAC **INRUSH CURRENT (Typ.)** Cold start 65A/230VAC LEAKAGE CURRENT <2mA / 240VAC 130~185% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed SHORT CIRCUIT Protection type: Hiccup mode, recovers automatically after fault condition is removed 13.6 ~ 16.3V 17 ~ 21V 26.7 ~ 32.4V 41.4 ~ 48.6V 53 ~ 64.8V PROTECTION OVER VOLTAGE Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery 100°C ±5°C (RTH2) **OVER TEMPERATURE** Protection type: Shut down o/p voltage, recovers automatically after temperature goes down WORKING TEMP -30 ~ +65°C (Refer to output load derating curve) WORKING HUMIDITY 20 ~ 90% RH non-condensing **ENVIRONMENT** STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 60°C) **VIBRATION** 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1 approved; design refer to IEC60950-1,EN60950-1 WITHSTAND VOLTAGE Note.6 I/P-O/P:3.0KVAC I/P-FG:1.5KVAC 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 EN55022 (CISPR22) Class B,EN61000-3-2,EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level (surge 4KV), criteria A **EMC IMMUNITY** MTBF 216.3K hrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 215*67.4*33mm (L*W*H) 0.48kg; 24PCS/12.5kg/0.61CUFT **PACKING** NOTE 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. Derating may be needed under low input voltages. Please check the static characteristics for more details. 5. 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.



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