

65W Single Output Medical Type

MPS-65 series



Features:

- Universal AC input / Full range
- Low leakage current ≤0.3mA
- Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 3 years warranty



SPECIFICATION MODEL MPS-65-27 MPS-65-13.5 MPS-65-15 MPS-65-3.3 MPS-65-5 MPS-65-7.5 MPS-65-12 MPS-65-24 MPS-65-48 DC VOLTAGE 3.3V 5V 7.5V 12V 13.5V 15V 24V 27V 48V RATED CURRENT 12A 12A 8A 5.2A 4.7A 4.2A 2.7A 2.4A 1.35A 0 ~ 15.2A 0 ~ 6A 0 ~ 5.4A 0 ~ 4.8A 0~3A 0~2.7A 0 ~ 1.5A **CURRENT RANGE** 0 ~ 13.8A 0~9.6A 62.4W 63.5W 63W 64.8W 64.8W 64.8W RATED POWER 39.6W 60W 60W 72W(+3.3V:50W;+5V:69W)with 18CFM min. Forced air convection **OUTPUT POWER (max.)** OUTPUT 100mVp-p RIPPLE & NOISE (max.) Note.2 80mVp-p 100mVp-p 100mVp-p 100mVp-p 100mVp-p 100mVp-p 100mVp-p 100mVp-p **VOLTAGE ADJ. RANGE** 2.97 ~ 3.63V 4.5 ~ 5.5V 6.75 ~ 8.25V 10.8 ~ 13.2V 12.2 ~ 14.85V 13.5 ~ 16.5V 21.6 ~ 26.4V 24.3 ~ 29.7V 43.2 ~ 52.8V **VOLTAGE TOLERANCE Note.3** +3.0% +3 0% +3 0% +2 0% +2 0% +2 0% +2 0% +2 0% +2 0% ±1.0% ±1.0% LINE REGULATION ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% LOAD REGULATION +3 0% ±3.0% ±3.0% +2 0% +2 0% ±2.0% ±2.0% ±2.0% ±2.0% SETUP, RISE TIME 800ms, 30ms/230VAC 800ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 50ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** 90 ~ 264VAC 127 ~ 370VDC **FREQUENCY RANGE** 47 ~ 440Hz 78% 79% 80% 80% 80% EFFICIENCY(Typ.) 66% 77% INPUT AC CURRENT (Typ.) 1.6A/115VAC 0.9A/230VAC INRUSH CURRENT (Typ.) COLD START 15A/115VAC 30A/230VAC LEAKAGE CURRENT <0.3mA / 264VAC 73 ~ 105W (3.3V:51 ~ 75W)(5V:70 ~ 105W) rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed PROTECTION 3.8 ~ 4.46V | 5.75 ~ 6.75V | 8.63 ~ 10.1V | 13.8 ~ 16.2V | 15.5 ~ 18.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 31 ~ 36.45V | 55.2 ~ 64.8V **OVER VOLTAGE** Protection type: Hiccup mode, recovers automatically after fault condition is removed WORKING TEMP. -10 ~ +60°C (Refer to output load derating curve) **WORKING HUMIDITY** 20 ~ 90% RH non-condensing -20 ~ +85°C, 10 ~ 95% RH ENVIRONMENT STORAGE TEMP., HUMIDITY **TEMP. COEFFICIENT** ±0.04%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes **VIBRATION** UL2601-1, TUV EN60601-1, IEC60601-1 approved SAFETY STANDARDS I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC WITHSTAND VOLTAGE **SAFETY & ISOLATION RESISTANCE** I/P-O/P, I/P-FG:100M Ohms/500VDC **EMC EMI CONDUCTION & RADIATION** Compliance to EN55011 (CISPR11) Class B (Note 4) HARMONIC CURRENT Compliance to EN61000-3-2,-3 **EMS IMMUNITY** Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN60601-1-2, medical level, criteria A **MTBF** 359.7Khrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 127*76*42mm (L*W*H) 0.23Kg; 54pcs/14.6Kg/1.35CUFT **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. 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.
- 5. Mounting holes M1 and M2 should be grounded for EMI purposes.





