TOTAL POWER INT'L

30W Single Output for Medical Type

MPS-30 series



Features :

- Universal AC input / Full range
- Low leakage current ≤0.3mA
- Protections:Short circuit/Over load/Over voltage/Over temperature
- Fixed switching frequency at 100KHz
- Low cost
- · High reliability
- 3 years warranty



SPECIFICATION

MODEL		MPS-30-5	MPS-30-12	MPS-30-15	MPS-30-24	MPS-30-27	MPS-30-48
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V	27V	48V
	RATED CURRENT	5A	2.5A	2A	1.2A	1.1A	0.6A
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A	0 ~ 2A	0 ~ 1.2A	0 ~ 1.1A	0 ~ 0.6A
	RATED POWER	25W	30W	30W	28.8W	29.7W	28.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	150mVp-p	240mVp-p	240mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.3		±3.0%	±3.0%	±3.0%	±3.0%	±2.0%
	LINE REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE, HOLD TIME	500ms, 30ms, 50ms/230VAC 500ms, 30ms, 10ms/115VAC at full load					
INPUT	VOLTAGE RANGE	88 ~ 264VAC auto switch 120 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY(Typ.)	72%	75%	76%	77%	78%	78%
	AC CURRENT	0.8A/115VAC 0.5A/230VAC					
	INRUSH CURRENT(max.)	COLD START 35A/230VAC					
	LEAKAGE CURRENT	<0.3mA/264VAC					
PROTECTION		Above 105% rated output power					
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.5 ~ 6.75V	13.2 ~ 16.2V	16.5 ~ 20.25V	26.4 ~ 32.4V	29.7 ~ 36.45V	52.8 ~ 64.8V
		Protection type : Shut down o/p voltage, re-power on to recover					
		Tj 135°C typically (U1) Detect on main control IC					
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.	-10 ~ +50°C (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20~+85°C, 10~95% RH					
	TEMP. COEFFICIENT	±0.03%°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes					
	SAFETY STANDARDS	UL2601-1, TUV EN60601-1, IEC601-1 Approved					
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:SHORT					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100N	/I Ohms/500VDC				
EMC (Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55011 (CISPR11) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2 Medical level, criteria A					
OTHERS	MTBF	547Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	101.6*65.8*23.5mm (L*W*H)					
	PACKING	0.16Kg; 90pcs/15.8k	(g/1.02CUFT				
NOTE	 Ripple & noise are measure Tolerance : includes set up 	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The dealth of the dealth					

