



30W Single Output for Medical Type

MPS-30 series



Features :

- Universal AC input / Full range
- Low leakage current \leq 0.3mA
- Protections: Short circuit / Overload / 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%	±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 TIME	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	70ms/230VAC 12ms/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 (Typ.)	0.8A/115VAC						
	INRUSH CURRENT (Typ.)	COLD START 30A/230VAC						
	LEAKAGE CURRENT	<0.3mA/264VAC						
PROTECTION	OVERLOAD	Above 105% rated output power						
		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: Hiccup mode, recovers automatically after fault condition is removed						
	OVER TEMPERATURE	Tj 135°C typically (U1) detect on main control IC						
		Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 $^{\circ}$ 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 & EMC (Note 4)	SAFETY STANDARDS	UL2601-1, TUV EN60601-1, IEC60601-1 approved						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:SHORT						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms/500VDC						
	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/15.8Kg/1.02CUFT						
NOTE	 Ripple & noise are measure Tolerance : includes set up 	All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Folerance: includes set up tolerance, line regulation and load regulation. 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 among directives.						





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