

MPS-30 Series

30W Single Output Medical PSU



FEATURES

- Universal AC input - Full range
- Low leakage current <0.3mA
- Short circuit / Overvoltage / Overload / Over-temp. protections
- Low cost
- High reliability
- Fixed switching freq. at 100kHz

ENVIRONMENTAL

Operating Temp: -10 to +60°C
With de-rating

Storage Temp: -20 to +85°C

SAFETY / EMC (SEE NOTE 4)

UL2601-1
EN60601-1
IEC60601-1

EN55011 Class B
EN61000-3-2,-3
EN61000-4-2, 3, 4, 5, 6, 8, 11
ENV50204
EN55024
EN60601-1-2, medical level, criteria A



ELECTRICAL SPECIFICATIONS

Model No.	MPS-30-XX					
XX	5	12	15	24	27	48
AC Input	88-264Vac, Auto-switch, 47-63Hz					
DC Input	120-370VDC					
DC Output						
Voltage	5V	12V	15V	24V	27V	48V
Current	0-5A	0-2.5A	0-2A	0-1.2A	0-1.1A	0-0.6A
Power (convection)	25W	30W	30W	28.8W	29.7W	28.8W
Ripple & noise (p-p)	80mV	120mV	150mV	240mV	240mV	240mV
Voltage Tolerance	±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%
Overload	Above 105% rated output power. Hiccup mode. Recovers automatically when condition removed.					
	5.5-6.75V	13.2-16.2V	16.5-20.25V	26.4-32.4V	29.7-36.45V	52.8-64.8V
Over Voltage	Hiccup mode. Recovers automatically when fault removed					
Over-temperature	135°C detect on main control IC. Shut down O/P. Recovers automatically when temperature goes down.					
Dimensions	101.6(L) x 65.8(W) x 23.5(H)mm					
Weight	0.16Kg					

- Notes:**
1. All parameters *NOT* specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
 2. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1µF and 47µF parallel capacitor.
 3. Tolerance includes set up tolerance, line 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.

Specifications subject to change without notice

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