

MPS-120 Series

120W Single Output Medical PSU



FEATURES

- Universal AC input - Full range
- Low leakage current <math><180\mu\text{A}</math>
- Short circuit / Overvoltage / Overload / protections
- With power good & fail signal output (optional)
- Fixed switching freq. at 45kHz
- 100% full load burn-in test

ENVIRONMENTAL

Operating Temp: -20 to +70°C
With de-rating

Storage Temp: -40 to +85°C

SAFETY / EMC (SEE NOTE 4)

UL60601-1
EN60601-1
IEC60601-1

EN55011 Class B
EN55022 Class B
EN61000-3-2,-3
EN61000-4-2, 3, 4, 5, 6, 8, 11
ENV50204
EN60601-1-2, medical level, criteria A

ELECTRICAL SPECIFICATIONS

Model No.	MPS-120-XX					
XX	3.3	5	12	15	24	48
AC Input	90-264Vac, single phase, 47-440Hz					
DC Input	127-370VDC					
DC Output						
Voltage	3.3V	5V	12V	15V	24V	48V
Current (25CFM)	0-24A	0-22A	0-10A	0-8A	0-5A	0-2.5A
Current (convection)	0-16A	0-14.7A	0-6.7A	0-5.3A	0-3.3A	0-1.7A
Ripple & noise (p-p)	80mV	80mV	100mV	100mV	120mV	120mV
Voltage Tolerance	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%
Overload	110-150% rated output power. Hiccup mode. Recovers automatically after fault removed.					
Over Voltage	115-135%		120-140%			
	Output shuts down. Re-power on to recover					
Dimensions	177.8(L) x 107.95(W) x 35.5(H)mm					
Weight	0.55Kg					

- 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

Safety Power Group Ltd

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565

Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com

web: www.safety-power.com