

Medical Series

MP25—Medical Switchers Series Switch-Mode Power Supply

Total Power	25Watts
Input Voltages	90-264 VAC
Number of Outputs	Three

Product Specifications

ANZ#: Z039a, August 31, 2001

SPECIAL FEATURES

- Medical Application
- Universal AC input
- Regulated output
- EMI filter built in
- Overload and short circuit protection

ENVIRONMENTAL

Operating temperature:	0 to 50 ° C
Storage temperature:	-20 to 85 ° C
Humidity (non-condensing):	5% to 95%
Vibration Frequency:	5 to 50 Hz
Acceleration:	± 7.35 M/(S*S)
Direction:	X, Y and Z axis
MTBF:	>100,000 Hours at full load and 25°C ambient conditions

ELECTRICAL SPECIFICATIONS

Input range	100 to 240 VAC
Frequency	47 to 63 Hz
Inrush current	50.0 Amps maximum at any input range
Input current	0.8Amps maximum at any input range
Efficiency	65% typical at 120VAC and maximum load
EMI filtering	FCC part 15J class B CISPR 22 class B
Maximum power	25W
Voltage regulation	±3% @constant voltage mode V1 and V2
Hold up time	Half cycle minimum at 120 VAC and 80% of rated load
Overload protection	Short circuit and overload protection: output short circuit, auto recovery

SAFETY

UL/CUL

UL2601-1 + CUL

CB

TUV EN60601-1 - Pending

CE

ORDERING INFORMATION

Model	Power max	Vout	Io min	Io max	Ripple P/P	Regulation	Safety
MP25-A	25W	V1 +5VDC	300mA	3.0A	50mV	±3%	Pending
		V2 +12VDC	200mA	1.6A	120mV	±3%	
		V3 -12VDC	100mA	0.4A	120mV	±5%	
MP25-B	25W	V1 +5VDC	300mA	3.0A	50mV	±3%	Pending
		V2 +15VDC	200mA	1.6A	150mV	±3%	
		V3 -12VDC	100mA	0.4A	120mV	±5%	
MP25-D	25W	V1 +5VDC	300mA	3.0A	50mV	±3%	Pending
		V2 +24VDC	200mA	1.6A	240mV	±3%	
		V3 -12VDC	100mA	0.4A	120mV	±5%	
MP25-E	25W	V1 +3.3VDC	300mA	3.0A	50mV	±3%	Pending
		V2 +12VDC	200mA	1.6A	120mV	±3%	
		V3 -12VDC	100mA	0.4A	120mV	±5%	

1. Ripple peak-to-peak with 20MHz bandwidth and a capacitor, 47uF/50V, cross-connected at testing point.
2. To maintain proper regulation on output 2, V1 current must be at least 1/4 rated load.

MECHANICAL DRAWINGS

AC Input: AMP 640445-3 or equivalent

CN1-1 Line

CN1-2 Neutral

GND 0.25" Fast-On Tab

DC Outputs: AMP 640445-6 or equivalent

CN2-1 V2

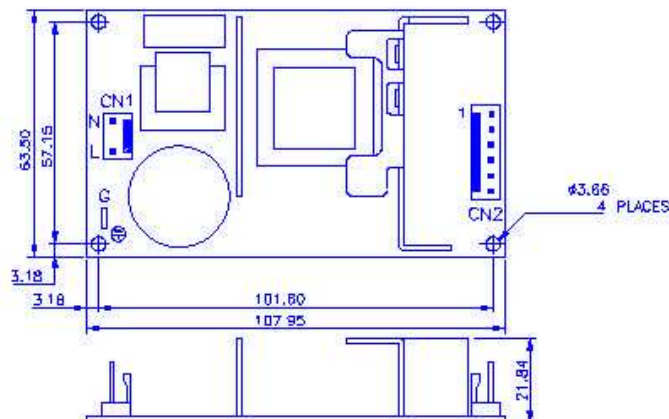
CN2-2 V1

CN2-3 V1

CN2-4 RTN

CN2-5 RTN

CN2-6 V3



UNIT: MM

1. Specification subject to change without notice.
2. All dimensions are in mm.
3. Weight: 0.362 lb/ 0.164 kg