

### **MP240 Series**

240 Watt Medical Power Supply



INPUT SPECIFICATIONS			
Input Voltage	90-264 VAC (Universal)		
Input Frequency	47-63Hz		
Input Current 3.5A <sub>RMS</sub> at 115VAC / 1.75A <sub>RMS</sub> at 230VAC(Vaerage)			
Inrush Current	<20A @ 240 VAC		
Power Factor	>0.97		
Earth Leakage Current	<250µA @ 264VAC		
Patient Leakage Current	<100µA @ 264VAC		
Input Protection	Internal T5A / 250V Fuse (Line & Neutral)		

OUTPUT SPECIFICATIONS			
Output Voltage	See Table		
Line Regulation	$\pm 0.5\%$		
Load Regulation	±3%		
Minimum Load	None		
<b>Transient Response</b>	$\pm$ 5%, 50% step-load, slew rate 1A/ $\mu$ S		
Ripple / Noise	1% pk-pk typical		
Turn-On Delay	3 seconds max @ 115VAC		
Hold-Up Time	>60ms at 115VAC Input (Full Load)		
Over-Voltage	110-140% Latching		
Over-Load	120-150% (Hiccup Mode, Auto-Recovery)		
Short Circuit	Hiccup Mode		
Over-Temperature	Latching, recycle input and cool to reset		

GENERAL SPECIFICATIONS			
Efficiency	ncy 93% typical at 115/230 VAC, full load		
Isolation	4000 VAC Input to Output 1500 VAC Input to Ground 500 VAC Output to Ground		
MTBF	300K Hours, Mil-217F at 25 °C, full load		
Weight	900g		

### **FEATURES**

- Medical 60601-1 Safety Approvals
- Small 6.00 x 3.94 x 1.54" U-Frame Package
- 670 Watt Peak Load Capability
- Full Load Convection Cooled Operation Up To 40°C
- High Efficiency 93% Typical At Full Load, 230Vdc
- Universal AC Input With Active PFC
- EN55011 / FCC Part 15J Class B Emissions
- **3 Year Warranty**

ENVIRONMENTAL SPECIFICATIONS			
<b>Operating Temperature</b> $0^{\circ}C \sim +40^{\circ}C$ (convectio cooled)			
Derating	$2.5\%/^{\circ}C > 40^{\circ}C$ , up to $50^{\circ}C$ max		
Storage Temperature	$-40^\circ \mathrm{C} \sim +80^\circ \mathrm{C}$		
<b>Operating Humidity</b>	5~95% (non-condensing)		
<b>Operating Altitude</b>	3000M (max)		
Shock	294m/s <sup>2</sup> (30G) , 11mS on 3 axesn ,total 18		
	times		
Vibration	10-500 Hz, 19.6 m/s <sup>2</sup> (2G), 20mins on 3 axes		

EMC & SAFETY			
	EN55011, FCC Part J15, Class B, Conducted		
Emissions	EN55011, FCC Part J15, Class B, Radiated		
Harmonic Current	EN61000-3-2 Class A		
Voltage Flicker	EN61000-3-3		
ESD	EN61000-4-2, 6kV contact, 8kV Air Discharge		
EFT/Burst	EN61000-4-4, Level 3, Criterion A		
Surge	EN61000-4-5, Installation Class3, Criterion A		
<b>Conducted Immunity</b>	EN61000-4-6 ,3V <sub>RMS</sub> , Criterion A		
<b>Radiated Immunity</b>	EN61000-4-3, 3V/m, Criterion A		
Magnetic Field	EN61000-4-8, 3A/m, Criterion A		
Dips & Interruptions	rruptions EN61000-4-11, 0% 10ms, 40% 100ms, 70% 500ms, 0% 5000ms; Criterion A/B/C		
	IEC 60601-1, 3rd Edition		
Safety Approvals	ANSI / AAMI ES60601-1		
	CSA C22.2 No 60601-1		
	EN60601-1, 3rd Edition		
	CE Mark		







www.megmeetusa.com REV 1.1

#### MEGMEET SHENZEN

 5th Floor, Unispender Information Harbor, Langshan Rd, North Area of Science & Technology Park, Nanshan District, Shenzhen, 518057, China
 Tel:
 (+86) 0755-8660 0999

 Vanshan District, Shenzhen, 518057, China
 E-mail:
 sales@megmeet.com

MEGMEET USA, INC. 4020 Moorpark Avenue, Suite 115 San Jose, CA 95117 USA

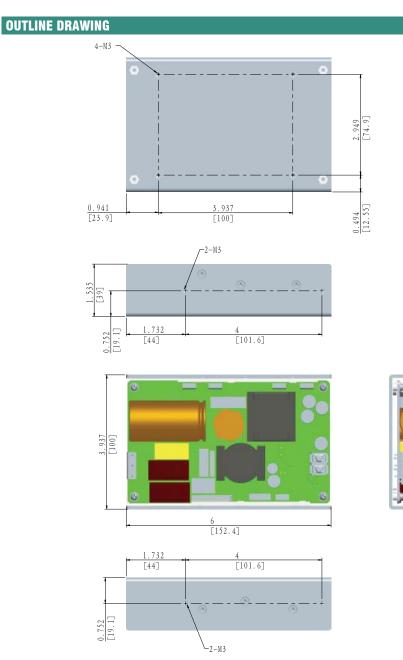
Tel: +1 (408) 260-7211 +1 (408) 260-7218 E-mail: power@megmeet.com

## MEGMEET

# MP240 Series 240 Watt Medical Power Supply

MODELS	MAIN OUTPUT VOLTAGE	OUTPUT CURRENT	PEAK Current	RIPPLE & NOISE (MAX)	MAX TOTAL REGULATION
MP240-12	12V	20A	35A	120mV	$\pm 3\%$
MP240-19	19V	12.6A	35A	190mV	±3%
MP240-24	24V	10A	25A	240mV	$\pm 3\%$
MP240-28	28V	8.5A	24A	280mV	±3%
MP240-48	48V	5A	14A	480mV	$\pm 3\%$

Notes: The maximum duration of peak current shall be less the 100ms, and the average output power shall be less than 240W.



AC II	NPUT		
P/N:	P/N: Molex 10-63-4057 or 09-65-		
2058	2058 or JST equivalent		
Mates	Mates With Molex housing 09-50-		
1051	or JST		
L	Line		
G	Earth Ground		
Ν	Neutral		

	<b>DC OUTPUT</b> Terminal Blocks		
+V	Output VDC		
-V	Return		

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