



# 175 Watt Medical Switcher



**EAGLE SERIES Model SMM200 - 7**

<b>Total Output Power</b>	<b>175 watts</b>
<b>Output Channels</b>	<b>Seven</b>
<b>Input Mains Voltage</b>	<b>90-264VAC</b>



**STANDARD FEATURES**

- Wide range Power Factor Corrected 90 to 264VAC, 47 to 63Hz. single phase
- Less than 130  $\mu$ A leakage at low line
- EMI compliance to CISPR22, FCC Class B
- UL60601-1, IEC601-1 and CSA 22.2 No. 601.1
- Short circuit protection with auto-recovery
- Power fail, Current limit, OVP and thermal protection
- Dual AC fusing protecting both lines
- 90V High voltage output

**ENVIRONMENTAL**

Operating temperature: 0°C to 50°C derate output power at 2.5% per degree from 50° to 70°C

Storage temperature: -40°C to 85°C

Temperature coefficient:  $\pm$  0.03% per °C

EMI compliance to CISPR 11 Class B

Humidity: Operating; non-condensing 0% to 95%

Forced air cooling with self contained 12 VDC fan

**GENERAL SPECIFICATIONS**

**Input**

Input range .....90 to 264VAC  
 Power Factor .....0.99  
 Frequency .....47-63 Hz  
 Inrush current .....37A max., cold start @ 25°C  
 Efficiency .....70% typical at full load, nom. line  
 EMI filter .....FCC Class "B", CISPR 22 Class "B" and EN55022 Class B.  
 Leakage current ..... less 130  $\mu$ A @ 132 VAC input.  
 Less than 270  $\mu$ A @ 264 VAC input. Lower leakage models optional. Contact factory for option code.

**Output**

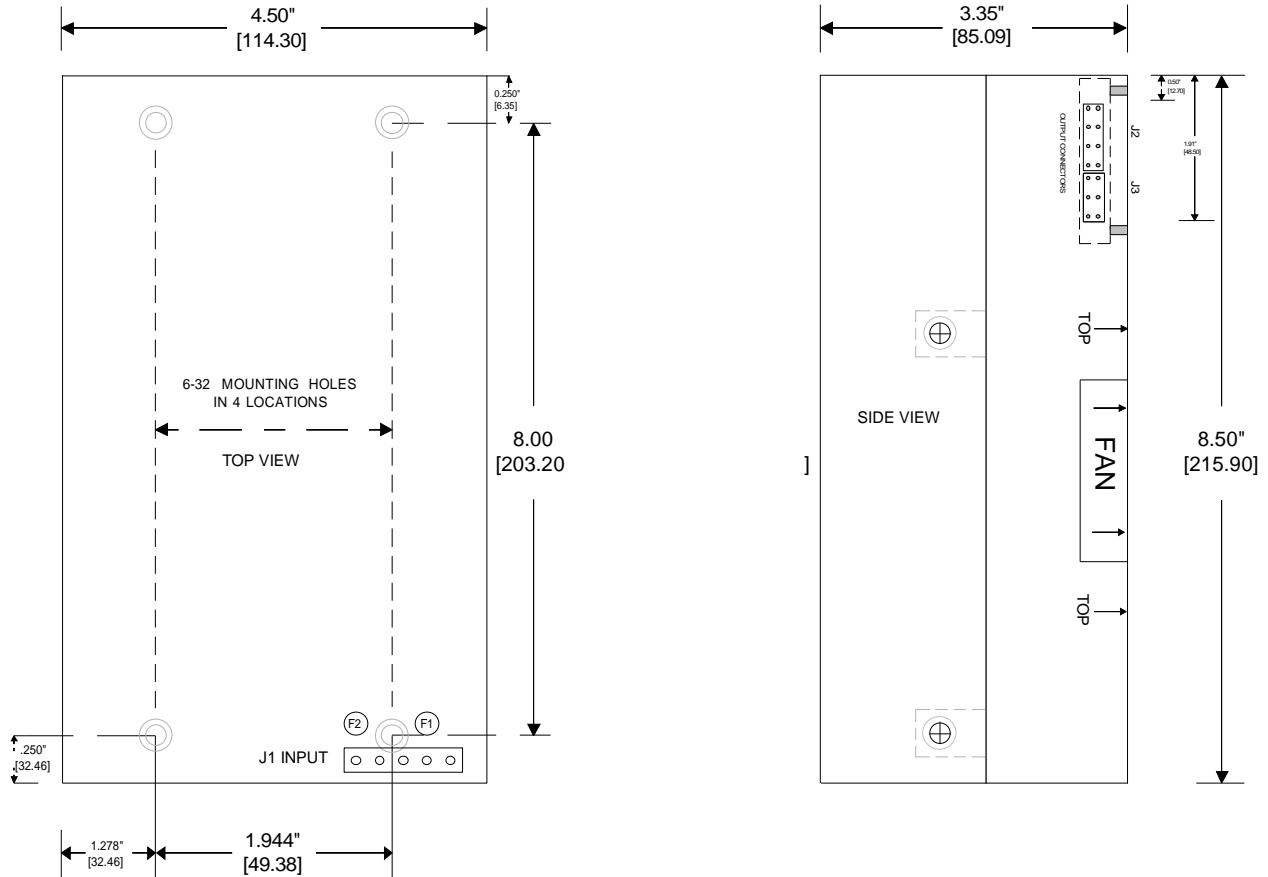
Maximum power .....175W maximum  
 Power Limit .....Approx. 115% of rated limit  
 Hold-up time.....16 ms @ 225W load, 115 VAC nominal line at factory voltage setting.  
 Overload protection .....Short circuit protection on all outputs.  
 Overvoltage protection .....Main output 125%,  $\pm$ 10%  
 Regulation .....Line & load 1%. A minimum load of 10% is required on output V1 for defined regulation.

**Physical**

Size .....4.5"W x 2.78"H x 8.5"L  
 (114.3mm x 70.61mm x 215.9mm)  
 Weight .....3.0 lbs. (1.36 kg)

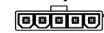
TYPICAL OUTPUT RATINGS													
Output V1		Output V2		Output V3		Output V4		Output V5		Output V6		Output V7	
Output Voltage	Output Current	Output Voltage	Output Current	Output Voltage	Output Current	Output Voltage	Output Current	Output Voltage	Output Current	Output Voltage	Output Current	Output Voltage	Output Current
5V	20A	5V	8A	5V	5A	5V	3A	12V	0.25	-12V	0.25	90V	0.8A
12V	10.4A	12V	8A	12V	5A	12V	3A						
15V	8.3A	15V	7.5A	15V	5A	15V	3A						
24V	5.2A	24V	5A	24V	5A	24V	3A						
36V	3.5A					36V	2.6						
48V	2.6A					48V	2A						

Note <sup>1</sup> Total combined output power not to exceed 175W maximum power supply rating



**Pin Assignments**

**AC input**



- J1-1 Ground
- J1-2 NC
- J1-3 Neutral
- J1-4 NC
- J1-5 Line

**DC output**



- J3-1 +15V
- J3-2 +/-15V RTN
- J3-3 90V RTN
- J3-4 -15V
- J3-5 NC
- J3-6 +90V

**DC Output**



- J2-1 V1 RTN
- J2-2 V2 RTN
- J2-3 V3 RTN
- J2-4 V4 RTN
- J2-5 V2 +
- J2-6 V1 +
- J2-7 V3 +
- J2-8 V4 -

**PS Connectors**

- J1 Molex 39-30-1614
- J2 Molex 39-30-0080
- J3 Molex 39-30-0060

**Mating Connectors**

- J1 Housing Molex 39-01-4051  
Pins Molex 39-00-0164
- J2 Molex 39-01-2085
- J3 Molex 39-01-2065

**NOTES**

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±0.2".
3. Specifications are at factory settings.
4. Mounting maximum insertion depth is 0.12".
5. Warranty: 1 year
6. Weight: 3.0 lb / 1.36 kg