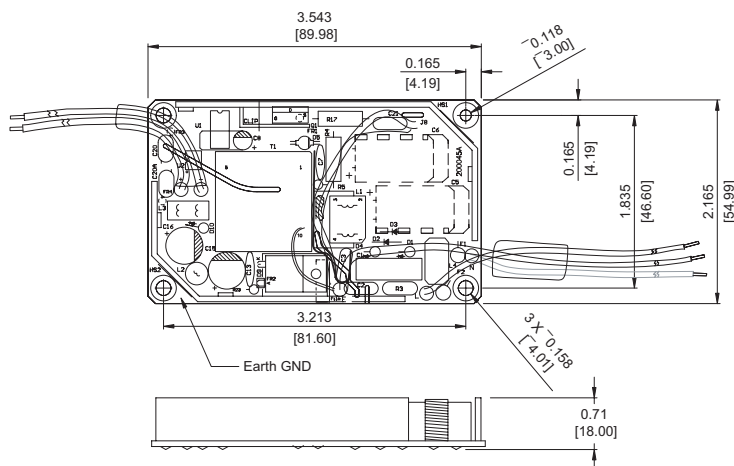
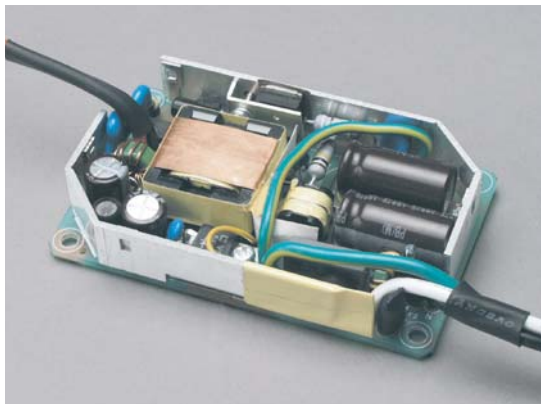


MSM20 series

20 Watt Medical Grade Power Supply



Features

- Wide range AC input
- Fully regulated output
- High efficiency
- Medical grade approval
- 5 year warranty

Environmental

- Operating temperature..... 0° C to 50° C
- Storage temperature..... -55° C to 85° C
- Weight = 0.30 lbs

EMI/EMC

- Meets FCC class B, CISPR 11 class B
- EMC per EN60601-1-2

Safety

- UR/cUR UL2601-1
- CE Marked EN60601-1-2:2001

Input and Output Connections/Polarity

- Input ground connection = 8.0" min green/yellow UL 1015 wire
- Input line connection = 8.0" min white UL 1015 wire
- Input neutral connection = 8.0" min black UL 1015 wire
- Output +V connection = 8.0" min red UL 1015 wire
- Output common connection = 8.0" min black UL 1015 wire

Electrical Specifications

Input

- Voltage..... 100 - 240 VAC
- Current..... 0.38 Amp @ 100 VAC
- Frequency..... 50 - 60 Hz
- Max. Earth leakage current:

Test Voltage	Normal	Single-fault
132 VAC 60 Hz	90 uA	120 uA
264 VAC 50 Hz	150 uA	200 uA

Output

- Line regulation..... TYP +/- 0.5%
- Load regulation..... TYP +/- 2%
- Hold up time..... 15 ms min at full load, 115 VAC
- Transient response..... 2 ms for 50% to 100% load change
- Over voltage protection..... Built-in
- Over current protection..... Built-in
- Short circuit protection..... Pulsing mode, auto recovery
- Efficiency..... 80% typ at full load and 115 VAC
- Ripple/noise (V_{p-p})..... 1% (20 MHz bandwidth)

Model No.	Voltage	Power	Current
MSM2012	12V	20W	1.67A
MSM2015	15V	20W	1.34A
MSM2024	24V	20W	0.84A