

# PWR-SPLY-5V3A-MG

## Medical Switch-Mode Power Supply

- 100-240VAC Universal Input Range
- Meets EISA2007, CEC Efficiency Level V, EU (EC) No 278/2009 Phase II
- Desktop Style
- Regulated Output with Low Ripple
- Impact-Resistant Polycarbonate Enclosure
- No load Power Consumption <0.3W
- Limited Power Source
- Certified to UL/EN60601-1



### Specifications

All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.

<b>AC Input</b>	100-240Vac, +/-10%, 47-63 Hz, 1Ø	<b>MTBF</b>	100,000 hours (calculated)
<b>Input Current</b>	100Vac: 0.45A	<b>Hold-up Time</b>	18 ms min. @ 115Vac, 60 ms min. @ 230 Vac
<b>Inrush Current</b>	Inrush limiting provided, 60 A peak	<b>Overload Protection</b>	Hiccup Mode
<b>Input Fuse</b>	Internal Primary Current Fuse provided: 3.15A, 250Vac	<b>Short Circuit Protection</b>	Hiccup Mode
<b>Efficiency</b>	Meets EISA2007, CEC Efficiency Level V, EU (EC) No 278/2009 Phase II	<b>Topology</b>	Switching – Fixed Frequency Flyback
<b>Output Voltage</b>	5VDC	<b>Safety Standards</b>	EN/IEC/CSA/UL60601-1
<b>Output Power</b>	3.00 A	<b>EMC, Radiated &amp; Conducted</b>	See chart below
<b>Ripple and Noise</b>	1% pk-pk max., 20MHz BW	<b>Dielectric Withstand</b>	Input-Output: 5,656VDC, Input-Ground: 1,500Vac, Output-Ground: 500Vdc
<b>Line &amp; Load Voltage Regulation</b>	Line: +/- 1%, Load: +/-5%	<b>Operating Temperature</b>	0° to 40°C, no derating
<b>Minimum Load</b>	Not required	<b>Storage Temperature</b>	-30 to +85°C
<b>Transient Response</b>	500 us max, 50% load step	<b>Relative Humidity</b>	5% to 95%, non-condensing
<b>Case Dimensions</b>	84 X 47 X 32mm. See outline drawing	<b>Altitude</b>	0 to 10,000 ft
<b>Case Material</b>	Black 94V0 Polycarbonate	<b>Turn-on Time</b>	2 sec max, 115/230 Vac
<b>Weight</b>	150g	<b>Output Cable</b>	#18AWG (SPT-1), 1500mm, 2 conductor
		<b>Output Connector</b>	2.5mm barrel type (Ault #3), center contact (+)

### EMC Specifications

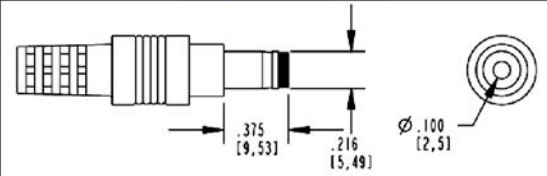
<b>Conducted Emissions</b>	EN55011 Class B, FCC Part 15, Class B.
<b>Radiated Emissions</b>	EN55011 Class B, FCC Part 15, Class B.
<b>Line Frequency Harmonics</b>	EN61000-3-2, Class A
<b>Voltage Fluctuations/Flicker</b>	EN61000-3-3
<b>Static Discharge Immunity</b>	EN61000-4-2, 6kV Contact Discharge, 8kV air discharge
<b>Radiated RF Immunity</b>	EN61000-4-3, 3V/m.
<b>EFT/Burst Immunity</b>	EN61000-4-4, 2kV/5kHz.
<b>Line Surge Immunity</b>	EN61000-4-5, 1kV differential, 2kV common-mode
<b>Conducted RF Immunity</b>	EN61000-4-6, 3Vrms
<b>Power Frequency Magnetic Field Immunity</b>	EN61000-4-8, 3A/m
<b>Voltage Dip Immunity</b>	EN61000-4-11, Criteria A

### AC Input Receptacle



IEC320 - C14  
Class I  
Grounded

### Output Connector



- Notes:
1. Ault #3 Connector, center contact (+).
  2. Connector is Switchcraft 760 plug or equivalent.  
Mating connector is Switchcraft 712A or equivalent.

### Outline Drawing

