

### FEATURES

- ◆ Compact 2" x 4" Footprint
- ◆ Universal AC Input
- ◆ Active PFC
- ◆ Outputs from 5VDC to 48VDC
- ◆ Full Medical Approvals
- ◆ Class B EMI



### TWO YEAR WARRANTY

### SAFETY CERTIFICATIONS

UL60601-1 3<sup>rd</sup> Edition  
 CSA22.2, No. 60601-1 3<sup>rd</sup> Edition  
 EN60601-1 3<sup>rd</sup> Edition

### STANDARD MODELS

Model Number	Output Voltage	Output Current	Output Power	Total Regulation	Ripple & Noise (Vp-p)
RBM-040U-S05	5V	8.00A	40W	±5%	50mV
RBM-060U-S12	12V	5.00A	60W	±3%	120mV
RBM-060U-S15	15V	4.00A	60W	±3%	150mV
RBM-065U-S19	19V	3.43A	65W	±3%	190mV
RBM-065U-S24	24V	2.71A	65W	±3%	240mV
RBM-065U-S36	36V	1.81A	65W	±2%	360mV
RBM-065U-S48	48V	1.36A	65W	±2%	480mV

Note: All ratings for convection cooling.

## SPECIFICATIONS

Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted. Subject to change without notice.

### INPUT SPECIFICATIONS

Input Operating Range .....90-264VAC  
 Power Factor, full load .....>0.95 @ 115VAC, >0.90 @ 230VAC  
 Input Frequency .....47-63Hz  
 Input Current, RMS .....<2A @115VAC, <1A @ 230VAC  
 Inrush Current, cold start @ 25°C .....<40A Peak @ 115VAC  
 <80A Peak @ 230VAC  
 Input EMI Filter.....EN55022 Curve B, FCC20780 pt. 15J Curve B  
 Input Protection .....Internal Fuse  
 Leakage Current .....<300µA @ 264VAC

### OUTPUT SPECIFICATIONS

Total Output Power, Convection.....40-65 Watts  
 Total Regulation <sup>1</sup>.....see model listing  
 Ripple & Noise, Pk-Pk <sup>2</sup>.....see model listing  
 Holdup Time, Full Load @ 115VAC .....10mS  
 Dynamic Response <sup>3</sup>.....300µS  
 Temperature Coefficient.....±0.05%/°C  
 Minimum Load.....0A  
 Overload Protection .....110-180% Full Load, Auto Recovery  
 Overvoltage Protection .....Shutdown & Latch off, AC recycle  
 Short Circuit Protection.....Auto Recovery

### GENERAL SPECIFICATIONS

Efficiency .....80% typical at Full Load, 115VAC  
 Switching Frequency.....65kHz  
 MTBF.....100,000 Hours  
 Immunity .....EN61000-4-2, 3, 4, 5, 6, 8, 11  
 Safety Standards .....UL60601-1 3rd Ed., CSA22.2 No.60601-1 3rd Ed., EN60601-1 3rd Ed.

### ENVIRONMENTAL SPECIFICATIONS

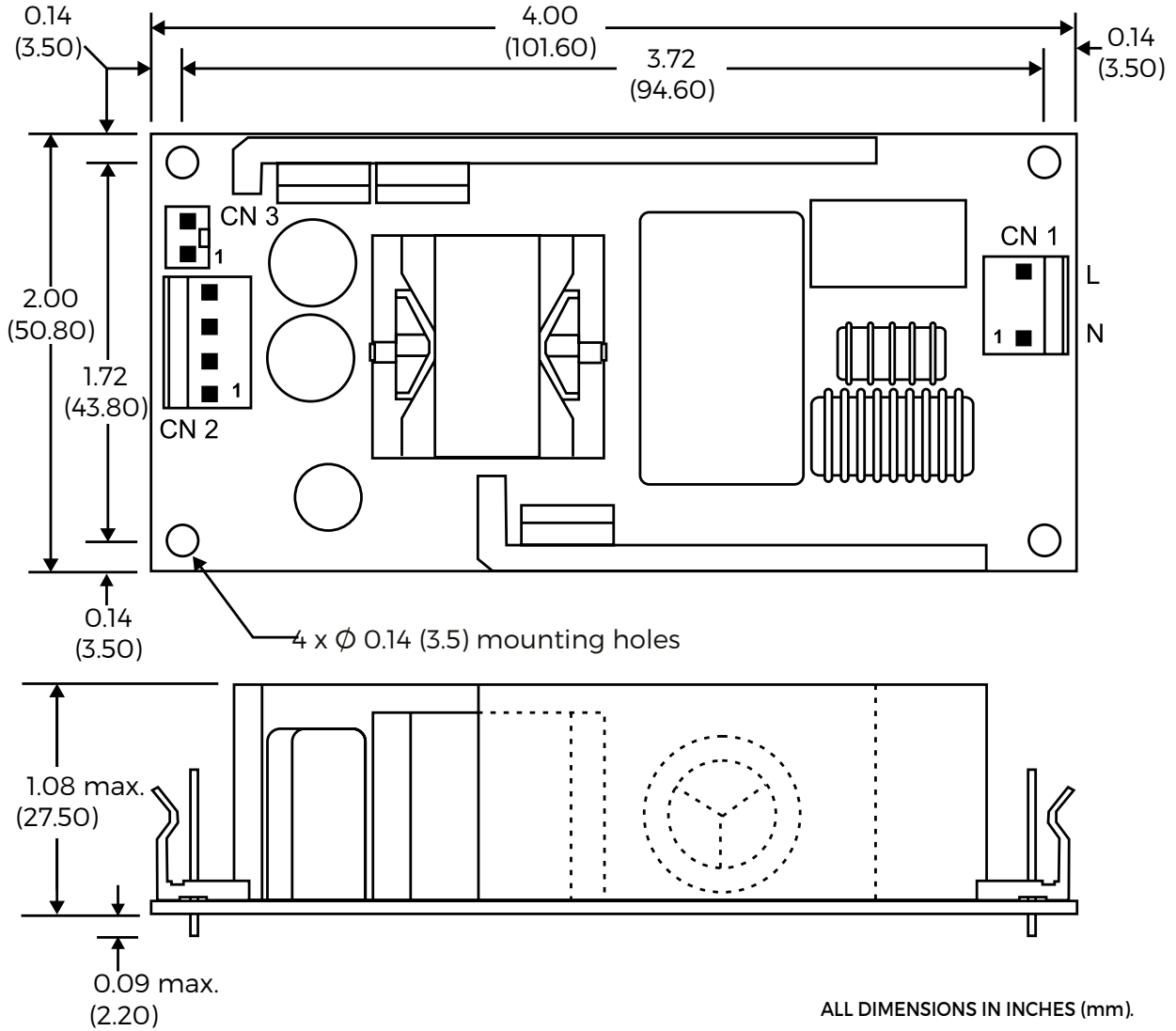
Operating Temperature.....0°C to 70°C Ambient  
 Derating .....2.5%/°C, 51°C to 70°C  
 Storage Temperature.....-40°C to +85°C  
 Humidity.....10% to 95%, non-condensing  
 Cooling.....Natural Convection

### PHYSICAL SPECIFICATIONS

Format.....Open PCB  
 Dimensions, Inches(mm).....4.0 L x 2.0 W x 1.08 H  
 (101.6 x 50.8 x 27.5)  
 Weight.....0.35 lbs (0.16 kg)

- NOTES:
1. No load to full load, including line regulation and load regulation.
  2. 20MHz bandwidth. Measure with 0.1µF ceramic and 10µF tantalum capacitors in parallel across the output.
  3. <4% deviation recovering to within 1% for 25% load change.

MECHANICAL SPECIFICATIONS & CONNECTION DETAILS



CONNECTOR PINOUTS	
CN1	See outline drawing
CN2	Pin 1: Output -Ve Pin 2: Output -Ve Pin 3: Output +Ve Pin 4: Output +Ve
CN3	Pin 1: Sense -Ve Pin 2: Sense +Ve

Note: Use of the sense connections is optional.

MATING CONNECTORS	
CN1	Housing: Molex 09-76-1020 or equivalent Pins (2): Molex 08-70-0012 or equivalent
CN2	Housing: Molex 09-52-4044 or equivalent Pins (4): Molex 08-70-0012 or equivalent
CN3	Housing: JST XHP-2 or equivalent Pins (2): JST SXH-001T-P0.6(N) or equivalent

A kit containing one each housing and indicated number of pins is supplied with each unit as standard.