



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



CE
2006/95/EC



STANDARD MODELS

UL60601-1 3rd Edition
CSA22.2, No. 60601-1 3rd Edition
EN60601-1 3rd Edition

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.

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

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. 153 Curve B
Input Protection	Internal Fuse
Leakage Current	<300µA @ 264VAC

Total Output Power, Convection.....	40-65 Watts
Total Regulation ¹	see model listing
Ripple & Noise, Pk-Pk ²	see model listing
Holdup Time, Full Load @ 115VAC.....	10mS
Dynamic Response ³	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

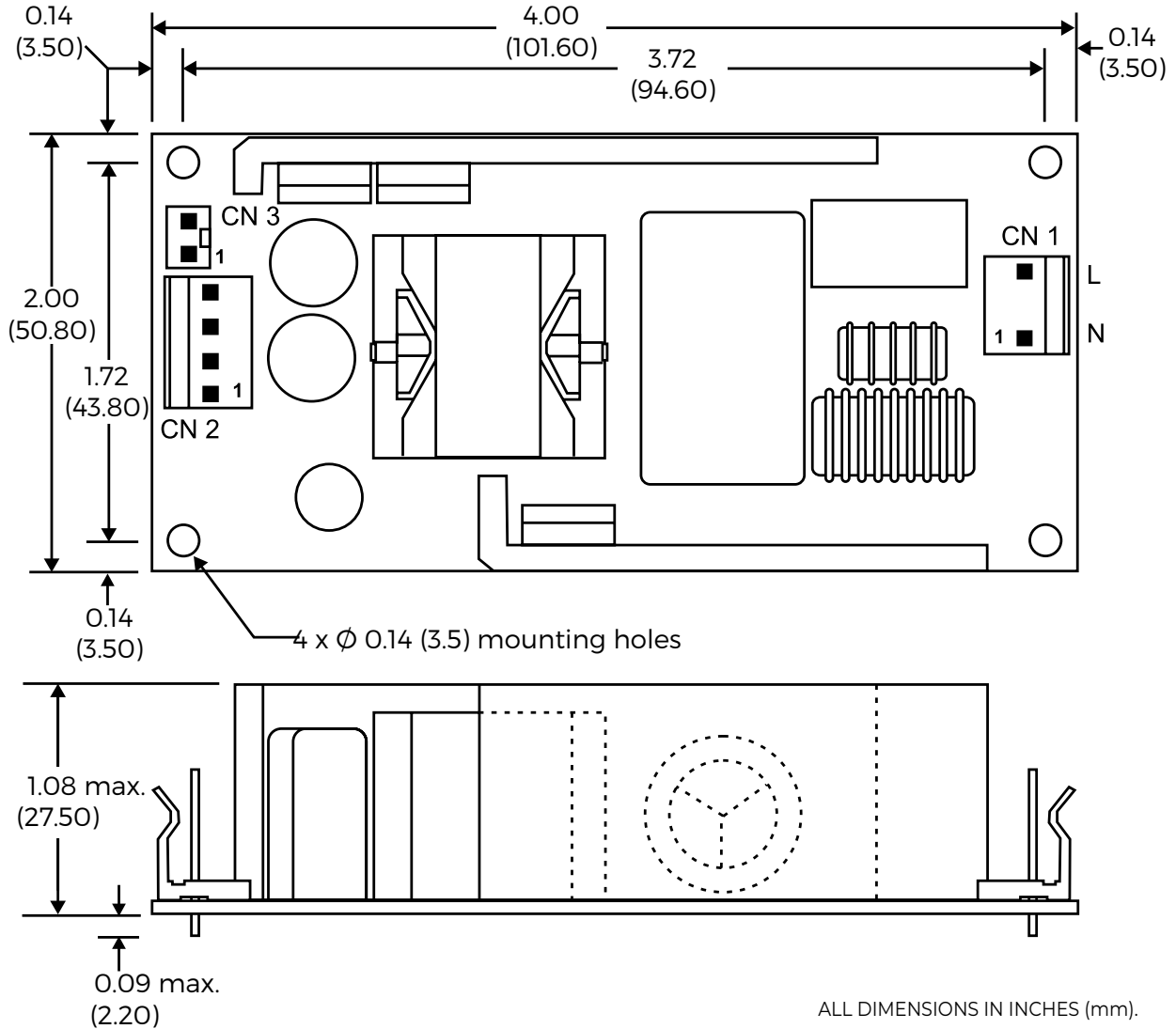
Efficiency	80% typical at Full Load, 115VAC
Switching Frequency	65kHz
MTBF	100,000 Hours
Immunity	EN61000-4-2, 3, 4, 5, 6, 8, 11
Safety Standards	UL60601-1 3rd Ed., CSA22.2 No.60601-1 3rd Ed., EN60601-1 3rd Ed.

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

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.