

#### FEATURES

- ◆ Compact 1.5" x 3" Footprint
- ◆ Universal AC Input
- ◆ Meets Efficiency Level V
- ◆ 25-40 Watts Convection
- ◆ No Load Consumption <100mW



#### TWO YEAR WARRANTY

#### SAFETY CERTIFICATIONS

UL60950-1 2<sup>nd</sup> Edition  
 CSA22.2, No. 60950-1 2<sup>nd</sup> Edition  
 EN60950-1 2<sup>nd</sup> Edition

#### STANDARD MODELS

Model Number	Output Voltage	Output Current	Output Power	Total Regulation	Ripple & Noise (Vp-p)
RA-025U-S05	5V	5.00A	25W	±5%	100mV
RA-040U-S12	12V	3.34A	40W	±5%	120mV
RA-040U-S15	15V	2.67A	40W	±5%	150mV
RA-040U-S18	19V	2.23A	40W	±5%	180mV
RA-040U-S24	24V	1.67A	40W	±5%	240mV
RA-040U-S36	36V	1.12A	40W	±5%	240mV
RA-040U-S48	48V	0.84A	40W	±5%	240mV

Notes: All ratings for convection cooling. All models allow 10W additional peak output power for up to 60 seconds. Average power must never exceed figure shown in table.

## 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  
 Input Frequency .....47-63Hz  
 Input Current, RMS .....<1A @115VAC, <0.5A @ 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

#### OUTPUT SPECIFICATIONS

Total Output Power, Convection .....25-40 Watts  
 Total Regulation <sup>1</sup> .....see model listing  
 Ripple & Noise, Pk-Pk <sup>2</sup> .....see model listing  
 Holdup Time, Full Load @ 115VAC .....6mS  
 Dynamic Response <sup>3</sup> .....300µS  
 Temperature Coefficient .....±0.04%/°C  
 Minimum Load .....0A  
 Overload Protection .....180% Full Load, Auto Recovery  
 Overvoltage Protection .....Shutdown, latch off  
 Short Circuit Protection .....Auto Recovery

#### GENERAL SPECIFICATIONS

Efficiency <sup>4</sup> .....85% typical at Full Load, 115VAC  
 MTBF .....150,000 Hours  
 Immunity .....EN61000-4-2, 3, 4, 5, 6, 8, 11  
 Safety Standards .....UL60950-1 2nd Ed., CSA22.2 No.60950-1 2nd Ed.,  
 .....EN60950-1 2nd Ed.

#### ENVIRONMENTAL SPECIFICATIONS

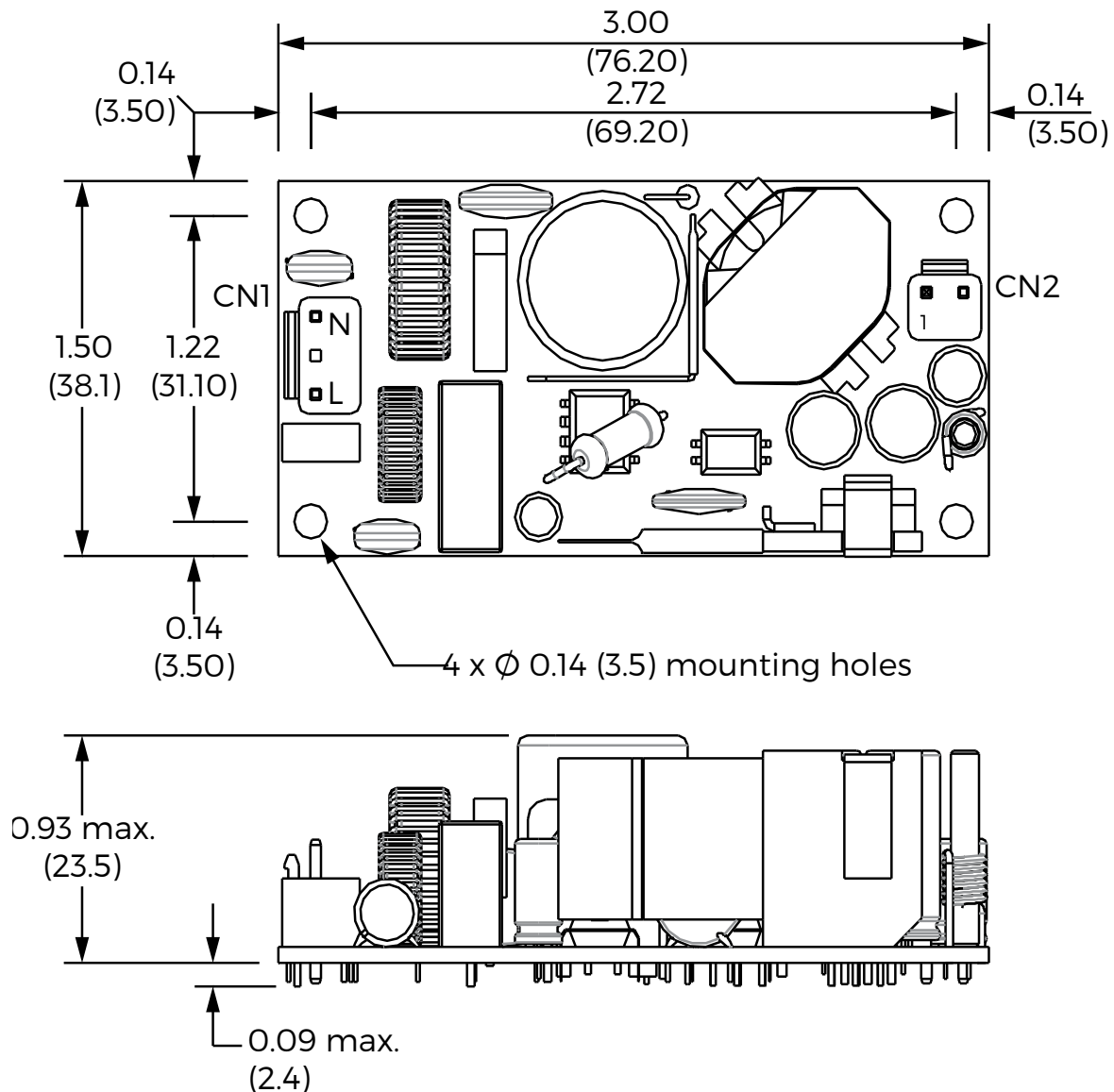
Operating Temperature .....0°C to 70°C Ambient  
 Derating .....2.5%/°C, 51°C to 70°C  
 Storage Temperature .....-40°C to +85°C  
 Humidity .....10% to 95%, non-condensing  
 Cooling .....Natural Convection

#### PHYSICAL SPECIFICATIONS

Format .....Open PCB  
 Dimensions, Inches(mm) .....3.0 L x 1.5 W x 0.93 H  
 .....(76.2 x 38.1 x 23.5)  
 Weight .....0.164 lbs (0.074 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.  
 4. 80% for RA-025U-S05.

# MECHANICAL SPECIFICATIONS & CONNECTION DETAILS



ALL DIMENSIONS IN INCHES (mm).

CONNECTOR PINOUTS	
CN1	See outline drawing
CN2	Pin 1: Output -Ve Pin 2: Output +Ve

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 (2): Molex 08-70-0012 or equivalent

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