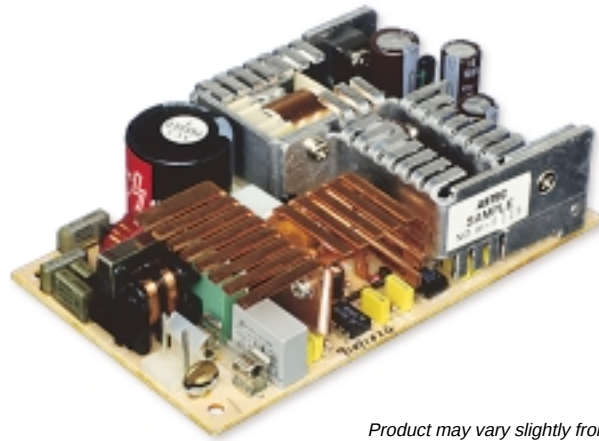


SA40-1313

40 Watts

SA40-1313

Total Power	40 Watts
Input Voltages	85 - 264 VAC
# of Outputs	Triple



Product may vary slightly from photo.

SPECIAL FEATURES

- Low cost
- Universal input
- High efficiency
- Built-in EMI filter
- Low output ripple
- 100% computerized final testing
- Overvoltage protection
- Overload protection

ENVIRONMENTAL

Operating temperature: 0° to 50°C ambient

Storage temperature: -40° to 85°C

Thermal regulation: $\pm 0.04\%$ per °C

MTBF: >100,000 hours at full load and 25°C ambient conditions per MIL-HDBK-217E

ELECTRICAL SPECIFICATIONS

Input

Input range	85-264 VAC
Frequency	47-63 Hz
Inrush current	<25 A peak @ 115 VAC; <50 A peak @ 230 VAC, cold start at 25°C
Input current	1 A max. (RMS) @ 115 VAC; 0.5 A max (RMS) @ 230 VAC
Efficiency	70% typical at full load, nominal line
Power factor	>0.65
EMI filter	Meets FCC 20780 Class B and VDE 0871 Level B

Output

Maximum power	40 W convection
Cross regulation	$\pm 2\%$ on output 1; $\pm 5\%$ on outputs 2, 3
Overshoot	None
Hold-up time	20 ms @ full load, 115 VAC nominal line
Overvoltage protection	+5 V trip voltage less than 6.8 V; recycle AC safety ground to reset
Safety ground	
Leakage current	< 0.5 mA @ 250 VAC, 50 Hz
Overload protection	Short circuit protected on all outputs

SAFETY

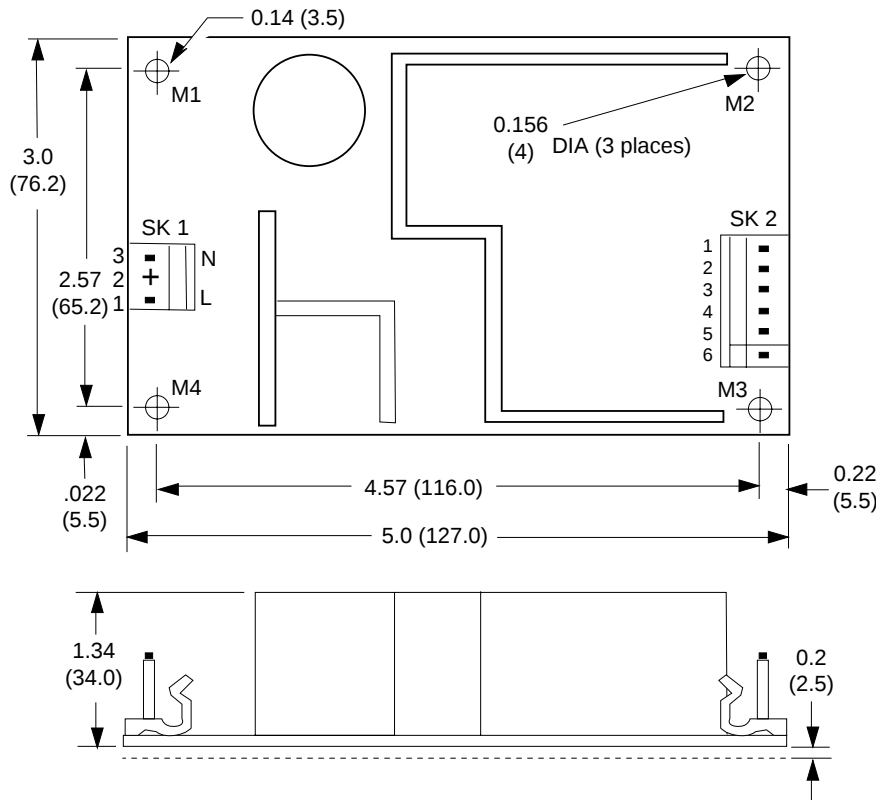
TUV	IEC950	R9153228
UL	UL1950	E132002
CSA	CSA22.2-234	LR53982C
VDE	VDE0805, IEC 950	11774-3336-1164
EN	60950	
CB	UL330-132002 / USA	

SPECIFICATIONS FOR SA40-1313

Model Number	Output Voltage	Minimum Load	Maximum Load	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³
SA40-1313	5 V	0.45 A	5 A	—	+5%, -4%	50 mV
	12 V	0.3 A	3 A	4.5 A	±5%	120 mV
	-12 V	0 A	0.35 A	—	±10%	120 mV

1. Peak current lasting <20 seconds. (Maximum Po = 60 W)
2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF capacitor in parallel with 0.1 µF capacitor at rated line voltage and load ranges.

DRAWINGS



SA40-1313

MATING CONNECTORS

AC Input: Molex 09-91-0300
DC Outputs: Molex 09-91-0600

NOTES

1. Specifications subject to change without notice.
2. All dimensions in inches (mm).
3. Mounting holes M1, M2 and M3 should be grounded for EMI purposes.
4. Mounting hole M1 is safety ground connection.
5. Specifications are for convection rating at factory settings at 115 VAC input, 25°C unless otherwise stated.
6. For safety purposes, on mounting hole M4 use plastic standoff.
7. Warranty: 1 year
8. Weight: 0.54 lb / 0.25 kg

PIN ASSIGNMENTS

Connector	SA40-1313
SK1-1	Live
SK1-2	Pin removed
SK1-3	Neutral
SK2-1	+12 V
SK2-2	+5 V
SK2-3	+5 V
SK2-4	Common
SK2-5	Common
SK2-6	-12 V