AD50 Series 50 Watts

Total Power: 50 Watts Input Voltage: 90 - 264 Vac # of Outputs: Single

Special Features

• Fully regulated output

• EN61000-3-2 compliant

Input power < 74 watts

• Overcurrent and overvoltage

• IEC320 AC input receptacle

3 pin (type C6) - AD5012N3L

2 pin (type C8) - AD5012N2L

• Universal AC input



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Electrical Specifications

Input

Input range: 90 - 264 Vac (wide range)

Frequency: 47 - 63 Hz

Inrush current: 60 A maximum @ 230 Vac, cold start 25°C

Input current: 2 A maximum Efficiency: 80% typical

FCC Part 15, Class B & EN55022 (CISPR 22) Class B EMI/RFI:

Safety ground 300 μA maximum@ 50/60 Hz, 264 Vac input - AD5012N3L leakage current: 100 µA maximum@ 50/60 Hz, 264 Vac input - AD5012N2L

Output

Maximum Power (Po): 50 W

17 ms. minimum at full load @ 100 Vac, 47 Hz Hold-up time:

Overvoltage protection: 16 - 20 V

Latching type, recycle AC to reset.

Overcurrent protection: Output short circuit protection auto recover Overload protection @ 110 - 120% above maximum rating

DC cable with 2.5 mm x 5.5 mm barrel plug

Cable/connector:

DC plug center +v DC plug outer -v

• Built in EMI filter • (CISPR 22 Class B)

protection

High MTBF

• AC input fuse

• Complies with One Watt Input Energy Star Requirement

Safety

CSA_{UL} UL 60950-1

CSA CSA-C22.2 no.60950-1

Environmental Specifications

Operating temperature: 5° to +40 °C ambient -40 °C to +70 °C Storage temperature:

Electromagnetic Designed to meet EN61000-4-2, -4, -5, level 4;

susceptibility: EN61000-4-3, -6, 10v/m; EN61000-4-8, -11; EN61000-3-3

and EN61000-3-2 Class A

Humidity: Operating; non-condensing 10% to 90% RH

> 300,000 hours at full load and 25 °C ambient conditions MTBF demonstrated:



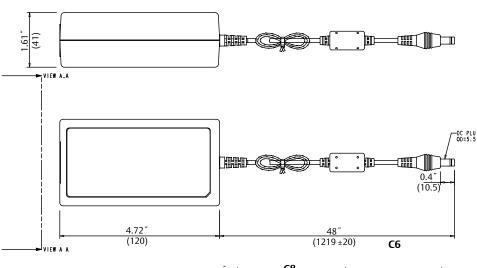


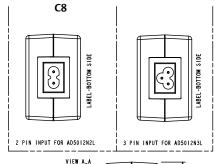
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Ordering Information Model Maximum Output Maximum Ripple Peak Load¹ Regulation² Number Voltage P/P (PARD)³ Power Load AD5012N3L 50 W 12.5 Vdc 4.16 A < 500 mV 6 A ± 5% AD5012N2L 50 W 12.5 Vdc < 500 mV 4.16 A 6 A ± 5%

- 1. Peak current lasting 200 ms every 3 seconds.
- 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 μ F (tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.

Mechanical Drawing





(65)

Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is \pm 0.02" (\pm 0.5 mm)
- 3. Warranty: 2 year
- 4. Weight: 0.61 lb./ 0.28 kg
- 5. AC input power cord sold separately
- Specifications at factory settings at 115 Vac input, 25 °C unless otherwise stated
- AC Input Connector: IEC320, C6 or C8, mate with C5 and C7 respectively.

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