AD50 Medical Series

50 Watts

Total Power: 50 Watts
Input Voltage: 90 - 264 VAC
of Outputs: single

Special Features

- Universal AC input
- Fully regulated output
- EN61000-3-2 compliant
- Input power <74 watts
- Overcurrent and overvoltage protection
- High efficiency
- High MTBF
- IEC320 AC input receptacle
 3 pin (type C6) AD5012N3LM
 2 pin (type C8) AD5012N2LM
- Built in EMI filter
- (CISPR 22 Class B)
- AC input fuse
- Complies with One Watt Input Energy Star / Blue Angel Requirement
- CE Mark EMC & LVD

Safety

CSA_{UL} UL 60601-1 CSA 60601-1 VDE 60601-1 CE Mark LVD and EMC



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Electrical Specifications

Input

Input range 90-264 Vac (wide range)

Frequency 47-63 Hz

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

Input current 2 A maximum Efficiency 80% typical

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

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

Output

Maximum Power (Po) 50 W

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

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

Thermal protection 105° to 120°C Trip point; output will latch off

Cable/connector DC cable length 2.5 mm center plug

DC plug center +v DC plug outer -v

Environmental Specifications

Operating temperature: 5° to +40°C ambient

Storage temperature: -40°C to +70°C

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

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

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



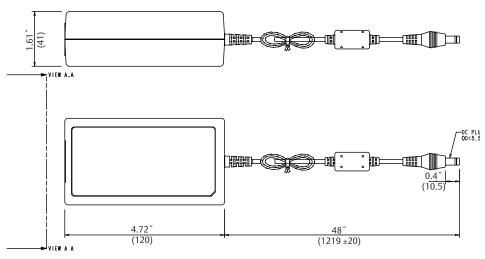
susceptibility:

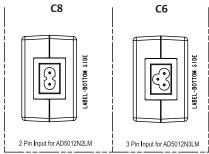


Ordering Information						
Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load¹	Regulation ²	Ripple P/P (PARD)³
AD5012N3LM	50 W	12 Vdc	4.16 A	6 A	±5%	<500 mV
AD5012N2LM	50 W	12 Vdc	4.16 A	6 A	±5%	<500 mV

- 1. Peak current lasting 200ms every 3 seconds.
- 2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settinas.
- 3. Peak-to-peak with 20MHz bandwidth and $10\mu F$ (tantalum capacitor) in parallel with a $0.1\mu F$ capacitor at rated line voltage and load ranges.

Mechanical Drawing





(65)

VIEW A_A

Notes:

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

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