Rev. 03.19.08 AD50 Medical Series 1 of 2

AD50 Medical Series

50 Watts

Total Power: Input Voltage: # of Outputs:

50 Watts 90 - 264 VAC single

Special Features h

- 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

CSAUL UL 60601-1 CSA 60601-1 VDE 60601-1 CE Mark LVD and EMC



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: Electromagnetic susceptibility:	-40°C to +70°C 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



Ordering Information

	Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³		
A	D5012N3LM	50 W	12 Vdc	4.16 A	6 A	±5%	<500 mV		
A	D5012N2LM	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 10μ F (tantalum capacitor) in parallel with a 0.1μ F capacitor at rated line voltage and load ranges.

Mechanical Drawing



- 7. AC Input Connector: IEC320, C6 or C8

Americas

AD50 Medical Series 5810 Van Allen Way Carlsbad, CA 92008

Rev 03 19 08

2 of 2

USA Telephone: +1 (760) 930 4600 Facsimile: +1 (760) 930 0698

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong Telephone: +852 2176 3333 Facsimile: +852 2176 3888

For global contact, visit:

www.powerconversion.com

techsupport.embeddedpower @emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling business-critical continuity.



EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2008 Emerson Electric Co.