imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Rev. 02.09.12_108 AD50 Series 1 of 2



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				
EMI/RFI:	FCC Part 15, Class B & EN55022 (CISPR 22) Class B				
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				
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				
Cable/connector :	DC cable with 2.5 mm x 5.5 mm barrel 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 susceptibility:	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				





AD50 Series 50 Watts

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

Special Features

- Universal AC input
- Fully regulated output
- EN61000-3-2 compliant
- Input power < 74 watts
- Overcurrent and overvoltage protection
- High MTBF
- IEC320 AC input receptacle 3 pin (type C6) - AD5012N3L 2 pin (type C8) - AD5012N2L
- Built in EMI filter
- (CISPR 22 Class B)
- AC input fuse
- Complies with One Watt Input Energy Star Requirement

Safety

CSAUL UL 60950-1 **CSA** CSA-C22.2 no.60950-1

Rev. 02.09.12_108 AD50 Series

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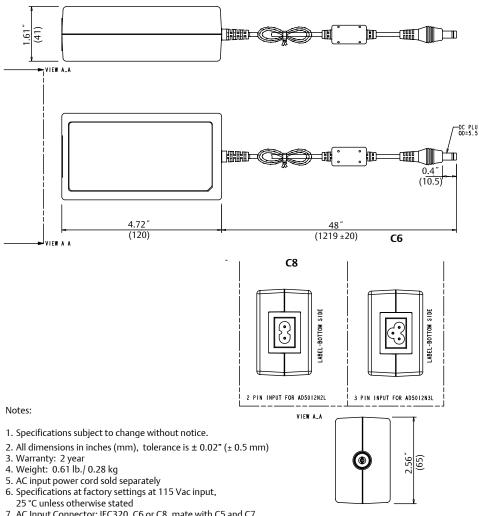
Ordering Information									
Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load ¹	Regulation ²	Ripple P/P (PARD) ³			
AD5012N3L	50 W	12.5 Vdc	4.16 A	6 A	± 5%	< 500 mV			
AD5012N2L	50 W	12.5 Vdc	4.16 A	6 A	± 5%	< 500 mV			

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 μF (tantalum capacitor) in parallel with a 0.1 μF capacitor at rated line voltage and load ranges.

Mechanical Drawing



7. AC Input Connector: IEC320, C6 or C8, mate with C5 and C7 respectively.

Americas

5810 Van Allen Way Carlsbad, CA 92008 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:

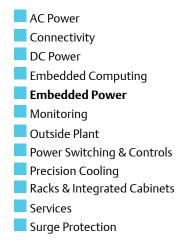
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