



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!



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AD2412N3L

24 Watts

Total Power: 24 Watts
Input Voltage: 90 - 264 Vac
of Outputs: Single



Special Features

- Universal AC input
- Fully regulated output
- EN61000-3-2 compliant
- Overcurrent and overvoltage protection
- High efficiency
- High MTBF
- IEC320 AC input receptacle 3 pin (type C14)
- Built in EMI filter
- (CISPR 22 Class B)
- LED power good indicator
- AC input fuse
- Efficiency Level V
- CE Mark EMC, LVD & ErP 2011
- Meets K.21 Basic Surge requirement

Safety

- **UL** UL 60950-1
- **CSA** CSA-C22.2 no.60950
- **TUV** EN/IEC60950-1
- **CE Mark** LVD, EMC & ErP 2011
- **CCC** Certificate
- **CB** Certificate

Electrical Specifications

Input

Input range:	90 - 264 Vac (wide range)
Frequency:	47 - 63 Hz
Inrush current:	50 A maximum @ 230 Vac, cold start 25 °C
Input current:	1 A maximum
Efficiency:	82% typical
EMI/RFI:	FCC Part 15, Class B & EN55022 (CISPR 22) Class B
Safety ground leakage current:	250 μ A maximum@ 50/60 Hz, 264 Vac input

Output

Maximum Power (Po):	24 W
Hold-up time:	20 ms. minimum at full load @ 115 Vac, 60 Hz
Overvoltage protection:	28 V Latching type, recycle AC to reset.
Overcurrent protection:	Output short circuit protection auto recover Overload protection @ 2.5 - 5A
Thermal protection:	Latching type, recycle AC to reset
Cable/connector :	DC cable with 2.5 mm I.D./ 5.5 mm O.D. center plug DC plug center +v DC plug outer -v

Environmental Specifications

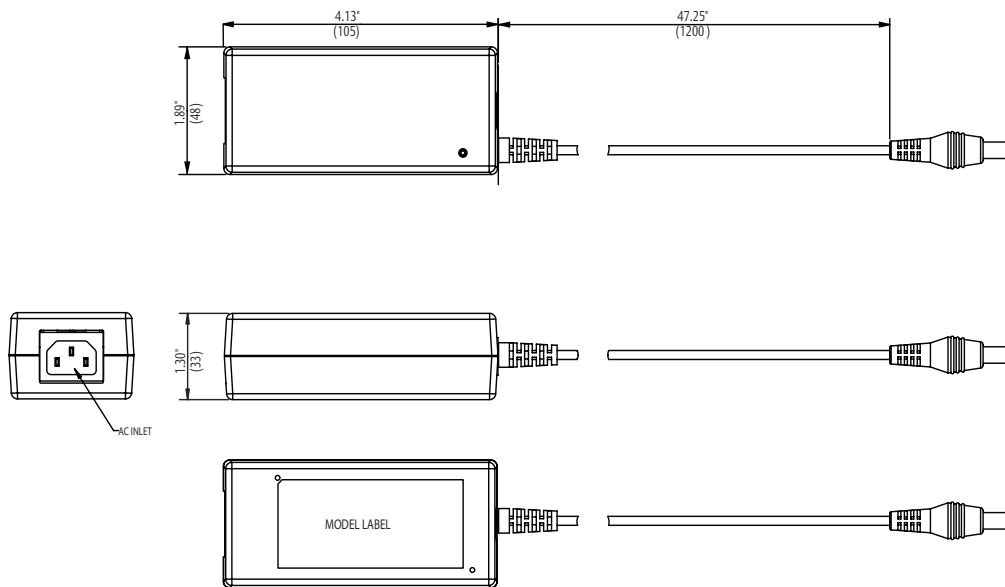
Operating temperature:	-5° to +50 °C ambient
Storage temperature:	-45 °C to +85 °C
Electromagnetic susceptibility:	Designed to meet EN61000-4-2, -4, -5, level 3; EN61000-4-3, -6, 6v/m; EN61000-3-3 and EN61000-3-2 Class A
Humidity:	Operating; non-condensing 5% to 90% RH > 850,000 hours at full load and 25 °C ambient conditions,
MTBF calculated:	Telcordia SR332 Issue 1 (Method 1, Case 3)

Ordering Information

Model Number	Maximum Power	Output Voltage	Minimum Load	Maximum Load	Peak Load ¹	Regulation ²	Ripple P/P (PAR) ³
AD2412N3L	24 W	12 Vdc	0.1 A	2 A	2.4 A	±5%	< 120 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 settings.
3. Peak-to-peak with 20MHz bandwidth and 10µF (tantalum capacitor) in parallel with a 0.1µF capacitor at rated line voltage and load ranges.
4. Power supply will operate with no load

Mechanical Drawing



Notes:

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ± 0.02" (±0.5mm)
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, C13

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