Embedded Power for
Business-Critical Continuity

AD2412N3L

24 Watts

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

RoHS 2002/95/EC

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 µA 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
MTBF calculated:	> 850,000 hours at full load and 25 °C ambient conditions, Telcordia SR332 Issue 1 (Method 1, Case 3)

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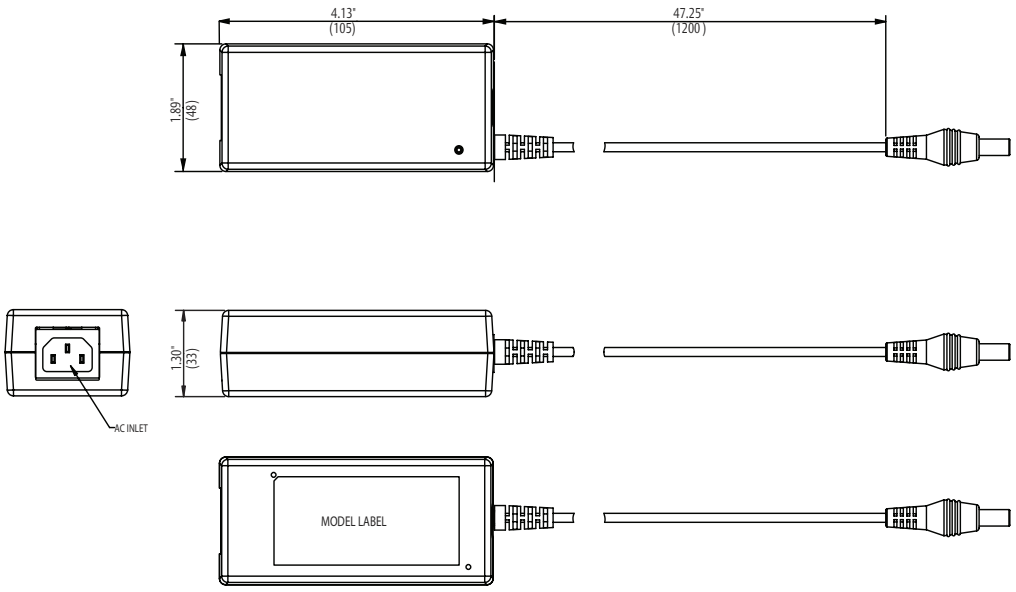
Ordering Information

Model Number	Maximum Power	Output Voltage	Minimum Load	Maximum Load	Peak Load[1]	Regulation[2]	Ripple P/P (PARD)[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 ºC 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 opearate 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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