# **AD2412N3L**

24 Watts

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



- 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 CertificateCB Certificate



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# **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 250 µA maximum@ 50/60 Hz, 264 Vac input

leakage current:

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 Designed to meet EN61000-4-2, -4, -5, level 3;

susceptibility: 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)

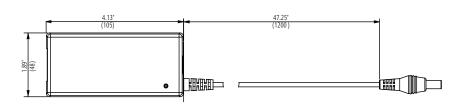


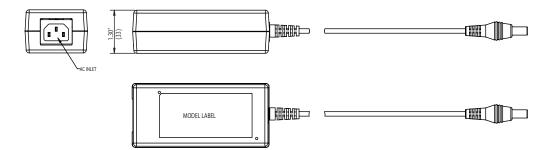
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| Ordering Information |                  |                   |                 |                 |                        |                         |                                   |
|----------------------|------------------|-------------------|-----------------|-----------------|------------------------|-------------------------|-----------------------------------|
| Model<br>Number      | Maximum<br>Power | Output<br>Voltage | Minimum<br>Load | Maximum<br>Load | Peak Load <sup>1</sup> | Regulation <sup>2</sup> | Ripple<br>P/P (PARD) <sup>3</sup> |
| 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  $10\mu F$  (tantalum capacitor) in parallel with a  $0.1\mu F$  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  $\pm$  0.02" ( $\pm$ 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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