

# AD2412N3L-VI

24 Watts



Total Power: 24 Watts Input Voltage: 90 - 264 Vac # of Outputs: Single, 12 Volt

## **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
- -20 °C to +50 °C operating temperature (with warm-up period)
- Efficiency complies with European CoC v.5 Tier 2 & US DoE Level VI (Standby power ≤75 mW)
- RoHS compliant
- Meets surge requirements:
  - 6 KV; EN61000-4-5 Surge 6 kV, Criteria A
  - 2.5 KV; K.21, Basic Levels, | Criteria A
  - 6 KV; K.21, Enhanced Levels, Criteria B

#### **SAFETY**

- UL 60950-1 (UL listed, LPS product)
- CSA-C22.2 No.60950
- TUV EN/IEC60950-1
- CE Mark: LVD & EMC
- CCC Certificate
- CB Certificate
- Other Approvals: RCM, PSE, GS, NOM, NRCan, DoE, CEC







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	87% 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						
Output voltage	12 V					
Maximum power (Po)	24 W					
Hold-up time	20 ms minimum at full load @ 115 Vac, 60 Hz 13 ms at -20 °C; 20 ms after 30 minutes warm-up time					
Overvoltage protection	28 V Latching type, recycle AC to reset					
Overcurrent protection	Output short circuit protection auto recover Overload protection @ 2.5 - 5 A					
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	-20 °C to +50 °C ambient (with warm-up period)				
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 Telcoredia SR332 issue 1 (Method 1, Case 3)				

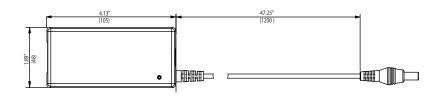
Ordering Information										
Model Number	Maximum Power	Output Voltage	Minimum Load	Maximum Load	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3,4</sup>			
AD2412N3L-VI	24 W	12 Vdc	0.1 A	2 A	2.4 A	± 5%	< 120 mV			

- 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 10µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.

11 11 11

- 4. Ripple 240 mV at -20 °C; 120 mV after 30 minutes warm-up time
- 5. Surge Criteria A: Equipment shall withstand the test without damage and shall operate within the specified performance limits after the test without manual intervention. Surge Criteria B: Equipment may be damage but will not cause any fire or safety hazard

# **Mechanical Drawing**



# AC NLET MODEL LABEL

#### Notes:

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ± 0.02" (±0.5 mm)
- 3. Warranty: 2 years
- 4. Weight: 0.61 lb./ 0.28 kg
- 5. AC input power cord sold separately
- Specifications at factory settings at 115 Vac input, 25 °C unless otherwise stated
- 7. AC Input Connector: IEC320, C13

# **WORLDWIDE OFFICES**

#### **Americas**

2900 South Diablo Way Suite B100 Tempe, AZ 85282, USA +1 888 412 7832

## **Europe (UK)**

Ground Floor Offices, Barberry House 4 Harbour Buildings, Waterfront West Brierley Hill, West Midlands DY5 1LN, UK +44 (0) 1384 842 211

# Asia (HK)

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

An Advanced Energy Company www.artesyn.com

For more information: www.artesyn.com
For support: productsupport.ep@artesyn.com

AD2412N3L-VI DS 05Nov2019