

# 60-480 Watts ADN Series

**Total Power:** 60 - 480 Watts  
**Input Voltage:** 115/230 VAC  
**# of Outputs:** One



## Electrical Specs

### Input

Nominal voltage	115/230 VAC auto select
Power factor (PFC)	EN61000-3-2
AC Input range	85-123 / 176-264VAC
DC Input range	210-375VDC
Frequency	47-63 Hz, 500 Hz

### Output

Nominal voltage	24V (22.5-28.5VDC Adj.)
Holdup time	> 20ms at full load (25°C)
Tolerance	< ±2 % overall (combination line/load/time/temp)
Tolerance	< ±2 % overall
Line regulation	<0.5%
Load regulation	<0.5%
Time & temp. drift	<1%
Initial voltage setting	24.5V ± 1%
Ripple	< 50mVpp
Power back immunity	> 35V
Parallel Operation	ADN20-24-1PM Switch selectable All others Jumper selectable via front panel
Over voltage protection	< 33VDC

## Special Features

- Power Factor Correction
- Auto Select 115/230 VAC, 50/60 Hz Input
- All Single Phase models meet SEMI F47 Sag Immunity
- Class 1, Div 2 Hazardous Locations
- DC OK Signal
- Adjustable Voltage
- Industrial grade design (no derating to 60°C)
- User-friendly front panel
- Single and three phase inputs available
- Highly efficient >90% switching technology
- High MTBF and reliability
- Peak current capability 2x rated current for 2 seconds
- Three year warranty
- NEC Class 2 on models <100W

## Environmental

Storage/shipment	-25°C to +85°C
Operating (convection)	-10° C to +60° C (derate to 50% at +70° C)
Humidity	<90% RH noncondensing per IEC 68-2-2, 68-2-3 IP20 (EN60529), protection from moisture & condensation

## Safety

EMC Emissions	EN 61000-6-3, Class B EN55011, EN55022 Radiated Conducted including Annex A
Immunity	EN 61000-6-2, EN61000-4-2 Level 4, EN61000-4-3 Level 3, EN61000-4-6 Level 3, EN61000-4-4 Level 4 input and level 3 output. EN61000-4-5 Isolation class 4, EN61000-4-11, Transient protection according to VDE 0160/W2 over entire load range.
Approvals	EN60950, UL508 Listed, cULus, UL 60950, cURus, CE (LVD 73/23 & 93/68/EEC), (EMC 89/336 & 93/68/EEC). EN61000-3-2, EN60079-15 (Class 1, Division 2 hazardous location, Groups A, B, C, D w/ T3 temp class up to 60°C Ambient.) SEMIF47 Sag Immunity. For models <100W, UL60950 testing to include approval as NEC Class 2 power supply acc. To NFPA 70 art. 725-41 (a)(2).
Protection	Class 1 (IEC536), degree of protection SELV rated per EN60950

**AMERICAS**

5810 Van Allen Way  
 Carlsbad, CA 92008  
 Telephone: 760-930-4600  
 Facsimile: 760-930-0698

**EUROPE**

Astec House, Waterfront Business Park  
 Merry Hill, Dudley  
 West Midlands, DY5 1LX, UK  
 Telephone: 44 (1384) 842-211  
 Facsimile: 44 (1384) 843-355

**ASIA**

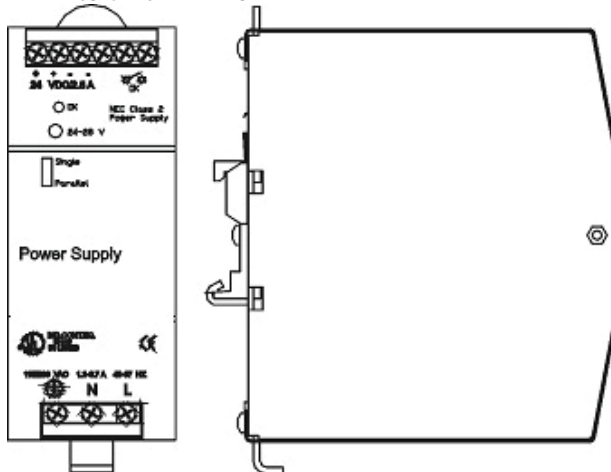
Units 2111-2116, Level 21  
 Tower1, Metroplaza  
 223, Hing Fong Road  
 Kwai Fong, New Territories  
 Hong Kong  
 Telephone: 852-2437-9662  
 Facsimile: 852-2402-4426



## Ordering Information

Model	Weight	Power	Voltage	Current	Case Type
ADN2.5-24-1PM	1.6 lbs. (725g)	60W	85-264VAC 90-375VDC	2.5A	metal
ADN4-24-1PP	0.7 lbs. (320g)	93W	85-132 / 176-264VAC 210-375VDC	3.8A	plastic
ADN4-24-1PM	2.4 lbs. (1055g)	100W	85-132 / 176-264VAC 210-375VDC	4A	metal
ADN5-24-1PM	2.4 lbs. (1055g)	120W	85-132 / 176-264VAC 210-375VDC	5A	metal
ADN10-24-1PM	3.3 lbs. (1480g)	240W	85-132 / 176-264VAC 210-375VDC	10A	metal
ADN20-24-1PM	3.4 lbs. (1520g)	480W	85-132 / 176-264VAC	20A	metal

### ADN2.5 thru ADN10



	DIMENSIONS(inches)		
	Height	Width	Depth
ADN2.5-24-1PM	4.88	1.97	4.55
ADN4-24-1PP	2.95	2.85	3.80
ADN4-24-1PM	4.88	2.56	4.55
ADN5-24-1PM	4.88	2.56	4.55
ADN10-24-1PM	4.88	3.26	4.55
ADN20-24-1PM	4.88	6.88	4.66

### ADN20

