

ADN-C Series 120 - 960 Watts

Data Sheet

 Total Power:
 120-960 Watts

 Input Voltage:
 85-264 Vac, 90-375 Vdc

 # of Outputs:
 Single

SPECIAL FEATURES

- Slim form factor
- Five year warranty
- High Efficiency > 90% Typ.
- Full Power at 60 °C
- Power Boost [™]
- Industrial Grade Design
- Metal mounting clip
- Metal case
- MTBF > 450,000h demonstrated at 40 °C
- Active PFC > 0.92
- Adjustable output
- Overvoltage protection with autorecovery
- Continuous short circuit and overload protection
- SEMI F47 Sag Immunity
- New visual diagnostic LED
- 3 Status LEDs
 - Input
 - Output
 - Alarm
- DC OK Relay
- Parallel Operation Capability
- Screw terminal connections
- RoHS Compliant
- No tools required for mounting

SAFETY

- UL508, cULus Listed
- UL 60950-1, cURus
- IEC60950-1
- Class I, Div 2 Hazardous Locations
- ATEX Certified on selected models
- IP20
- CE





Input					
AC Input range:	Nominal: 100 - 240 Vac/115 - 230 Vac/85 - 264 Vac				
DC Input range:	90-375 Vdc				
Frequency:	47-67 Hz, 400 Hz				
Efficiency:	> 90%				
Inrush current (typical):	< 15A or < 60A depending on model				
PFC:	Active, better than 0.92				
Output					
Nominal voltage:	ADN5-24-1PM-C & ADN10-24-1PM-C: 24 Vdc (22.5 - 28.5 Vdc Adj) ADN20-24-1PM-C & ADN40-24-1PM-C: 24 Vdc (24-28 Vdc Adj)				
Initial Voltage Setting:	24.5 V ± 1%				
Hold-up time:	> 20 ms at full load (100 Vac Input @ Tamb = +25 °C)				
Voltage regulation:	< ± 2% (combination line, load, time and temperature related changes				
Ripple:	ADN5-24-1PM-C, ADN10-24-1PM-C, ADN40-24-1PM-C: < 50 mVpp ADN20-24-1PM-C: < 100 mVpp				
Back EMF immunity:	< 35 Vdc				
Power Boost™:	1.5 x Nominal current for 2 or 4 seconds depending on model				
Short circuit current:	1.5 x Nominal current at near zero volts at short circuit condition				
Parallel operation:	Switch selectable single unit or parallel unit operation. Units will not be damaged by parallel operation (regardless of switch position setting)				
Ouput Noise suppression:	Radiated EMI values below EN61000-6-2				
Overvoltage protection:	> 30.5 Vdc but < 33 Vdc, auto recovery				
Line and Load regulation:	< 0.5%				
Time and Temperature Drift:	< 1%				





General Specifications	
EMC Emissions:	EN61000-6-2:2001, EN61000-6-3:2001, Class B EN55011, EN55022 Radiated and Conducted including Annex. A, EN61000-3-2
EMC Immunity:	EN61000-6-1:2001, EN61000-6-2:2001, 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 Installation class 4, EN61000-4-11, IEC 61000-4-34 voltage dip immunity standard
Warranty:	5 Years
General protection safety:	Protected against continuous short-circuit, continuous overload, continous open circuit. Protection Class 1 (IEC536), degree of protection IP20 (IEC60529) Safe low voltage: SELV (acc. IEC60950-1)
Status Indicators:	Visual: 3 status LEDs (Input, Output, Alarm) Relay: N.O. contact rated 200 mA/50 Vdc

LED Diagnostics								
LED	ОК	Loss of Ac	Low Ac	No Dc	High Load	Overload	Hot	Too Hot
Input	Green		Yellow	Green	Green	Green	Green	Green
Output	Green		Green		Yellow	Yellow	Green	
Alarm				Red	Yellow	Red	Yellow	Yellow

Environmental Specifications				
Storage Temperature:	-40 °C to + 85 °C; All models			
Operating Temperature: From -25 °C to 70 °C. Derate starting at 60 °C; All models				
	Up to 50% load permissable with horizontal or on top mounting orientation			

Other Features					
External fusing:	Not required. Unit provides internal fuse (not accessible)				
Mounting orientation:	Standard: Vertical, Optional: Horizontal or on Top Simple snap-on to DIN TS35/7.5 or TS35/15 rail system				
Ventilation:	Normal convection, No fan required				
Cooling Spacing	ADN5-24-1PM-C & ADN10-24-1PM-C: ADN20-24-1PM-C: ADN40-24-1PM-C:	15 mm in front, 25 mm above and below, 10 mm left and right 15 mm in front, 40 mm above and below, 10 mm left and right 15 mm in front, 25 mm above and below, 25 mm left and right			
Connections:	Input: Screw terminals, connector size range: 16-10 AWG (1.5 - 6 mm ²) for solid conductors Output: Two terminals per output, connector size range: 16-10 AWG (1.5 - 6 mm ²) for solid conductors One terminal per output for ADC40-24-1PM-C, connector size range: 7-6 AWG (10.6 - 13 mm ²) for solid conductors				

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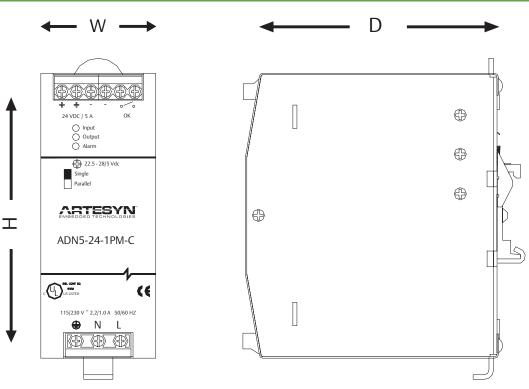


Ordering Information						
Model Number	Power	Input Voltage	Weight	Current	Case Type	MTBF
	Fower	input voltage	weight	Guneni	Case Type	Demonstrated at 40 °C
ADN5-24-1PM-C	120 W		1.10 lbs (500 g)	5 A @ 24 Vdc	Metal with mounting clip	550,000 hours
ADN10-24-1PM-C	240 W	85-264 Vac 90-375 Vdc*	1.98 lbs (900 g)	10 A @ 24 Vdc		
ADN20-24-1PM-C	480 W	00 010 100	2.6 lbs (1200 g)	20 A @ 24 Vdc		450,000 hours
ADN40-24-1PM-C	960 W	100-240 Vac	6.0 lbs (2750 g)	40 A @ 24 Vdc		500,000 hours

*No UL listed for DC input

Dimensions						
	Height	Width	Depth			
ADN5-24-1PM-C		1.97 in (50 mm)	4.07 (111 mm)			
ADN10-24-1PM-C	4.85 in (123 mm)	2.36 in (60 mm)	4.37 (111 mm)			
ADN20-24-1PM-C		3.42 in (87 mm)	4.96 in (126 mm)			
ADN40-24-1PM-C		7.09 in (180 mm)	4.81 in (122 mm)			

Mechanical Drawing



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ADN-C DS Rev. 04.14.14

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