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ADN-C Series

120 - 480 Watts

Total Power: 120-480 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

Electrical Specifications

Input						
AC Input range:	Nominal: 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 < 30A depending on model					
PFC:	Active, better than 0.92					
Output						
Nominal voltage:	ADN5-24-1PM-C & ADN10-24-1PM-C: ADN20-24-1PM-C:	24 Vdc (22.5 - 28.5 Vdc Adj) 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:	$<\pm$ 2% (combination line, load, time and temperature related changes)					
Ripple:	ADN5-24-1PM-C & ADN10-24-1PM-C: ADN20-24-1PM-C:	< 50 mVpp < 100 mVpp				
Back EMF immunity:	< 35 Vdc					
Power Boost™:	1.5 x Nominal current for 2 or 4 second	s 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%					



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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 Isolation 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, continuous 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
	From -25 °C to 70 °C. Derate starting at 60 °C; All models
Operating Temperature:	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	Normal convection, No fan required				
Cooling Spacing	ADN5-24-1PM-C & ADN10-24-1PMC: 15 mm in front, 25 mm above and below, 10 mm left and right ADN20-24-1PMC: 15 mm in front, 40 mm above and below, 10 mm left and right					
C	Input: Screw terminals, connector size range: 16-10 AWG (1.5 - 6 mm²) for solid conductors					
Connections:	Output: Two terminals per output, connector size range: 16-10 AWG (1.5 - 6 mm²) for solid conductors					

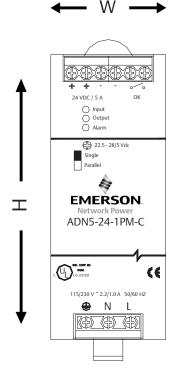
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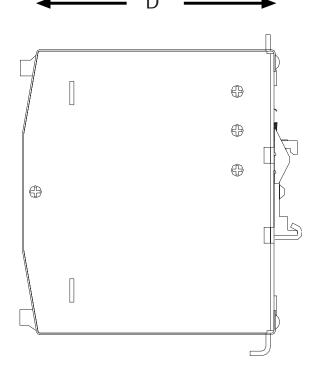
(Ordering Information							
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	Model Number	Power	Input Voltage	Weight	Current	Case Type	Demonstrated at 40 °C	
	ADN5-24-1PM-C	120 W	85-264 Vac 90-375 Vdc*	1.10 lbs (500 g)	5A @ 24 Vdc		550,000 hours	
A	ADN10-24-1PM-C	240 W		1.98 lbs (900 g)	10 A @ 24 Vdc			
A	ADN20-24-1PM-C	480 W		2.6 lbs (1200 g)	20 A @ 24 Vdc		450,000 hours	

^{*}No UL listed for DC input

Dimensions				
	Height	Width	Depth	
ADN5-24-1PM-C		1.97 in (50 mm)	4.37 (111 mm)	
ADN10-24-1PM-C	4.85 in (123 mm)	2.36 in (60 mm)	4.37 (111111111)	
ADN20-24-1PM-C		3.42 in (87 mm)	4.96 in (126 mm)	

Mechanical Drawing





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