

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
- 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:	ADN5-24-1PM-C: < 15 A ADN10-24-1PM-C: < 30 A ADN20-24-1PM-C: < 40 A
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: 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: < 50 mVpp ADN20-24-1PM-C: < 100 mVpp
Back EMF immunity:	< 35 Vdc
Power Boost™:	1.5 x Nominal current for 4 seconds.
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)
Output 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 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	OK	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/shipment:		-25 °C to + 85 °C
Operation (convection):	ADN5-24-1PM-C & ADN10-24-1PM-C:	-25 °C to + 60 °C full power load
	ADN20-24-1PM-C:	Full Load -25 °C to + 60 °C derate to 50% load at +70 °C
	Up to 50% load permissible 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 & ADN10-24-1PMC:	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
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	

Ordering Information

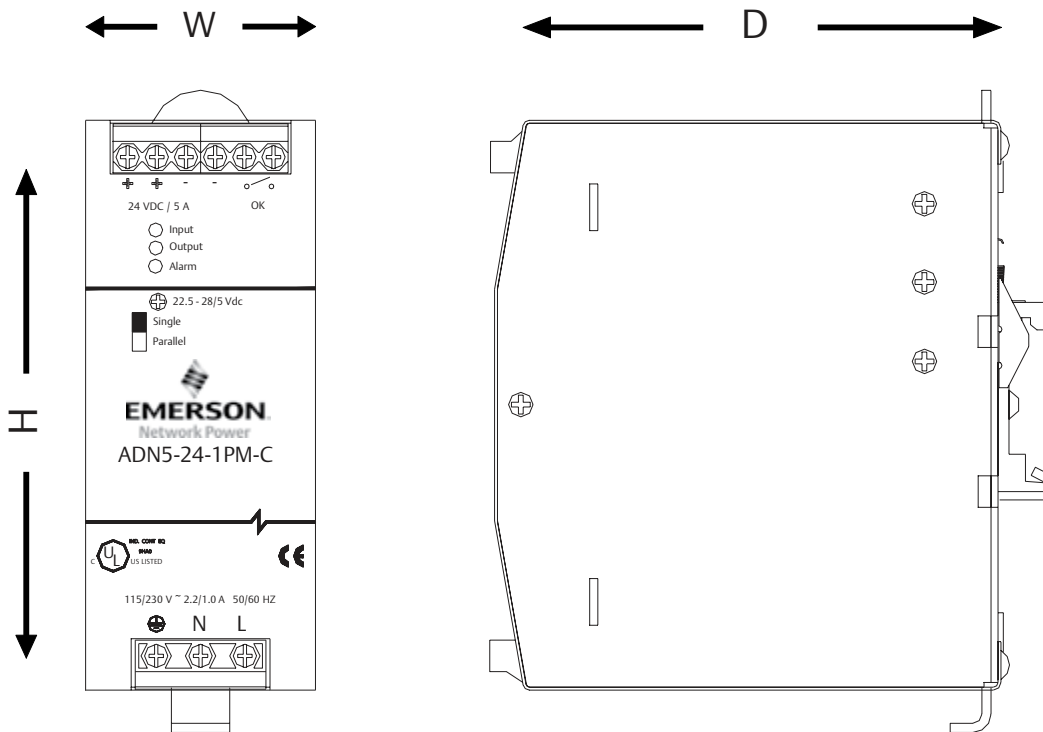
Model Number	Power	Input Voltage	Weight	Current	Case Type	MTBF
						Demonstrated at 40 °C
ADN5-24-1PM-C	120 W	85-264 Vac 90-375 Vdc*	1.65 lbs (750 g)	5A @ 24 Vdc	Metal with mounting clip	550,000 hours
ADN10-24-1PM-C	240 W		1.98 lbs (900 g)	10 A @ 24 Vdc		
ADN20-24-1PM-C	480 W		2.6 lbs (1200 g)	20 A @ 24 Vdc		

*No UL listed for DC input

Dimensions

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

Mechanical Drawing



Americas

5810 Van Allen Way
Carlsbad, CA 92008
USA
Telephone: +1 760 930 4600
Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park
Merry Hill, Dudley
West Midlands, DY5 1LX
United Kingdom
Telephone: +44 (0) 1384 842 211
Facsimile: +44 (0) 1384 843 355

Asia (HK)

14/F, Lu Plaza
2 Wing Yip Street
Kwun Tong, Kowloon
Hong Kong
Telephone: +852 2176 3333
Facsimile: +852 2176 3888

For global contact, visit:

www.Emerson.com/EmbeddedPower
techsupport.embeddedpower@emerson.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.
The global leader in enabling
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Computing
- Embedded Power**
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.
©2011 Emerson Electric Co.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru