

ADNB-C Series

96 Watts

Data Sheet

Total Power: 96 Watts
Input Voltage: 88 - 264 Vac
 124 - 370 Vdc
of Outputs: Single

SPECIAL FEATURES

- Universal input 88 - 264 Vac
- High efficiency 88% typical
- Full power at 50 °C
- Adjustable output voltage
- Overvoltage protection
- Overload protection
- LED for output
- Screw terminal connections
- RoHS compliant
- No tools required for mounting
- Three year warranty

SAFETY*

- UL508
- UL1310 Class 2 (except ADNB075-12-1PM-C, ADNB064-15-1PM-C)
- TÜV EN60950-1
- CE

*AC input only



Electrical Specifications

Input	
AC input range	Nominal: 88 - 264 Vac
DC input range	124 - 370 Vdc
Frequency	47 - 63 Hz
Efficiency	88%
Inrush current (typical)	< 30 A (115 Vac) or <60 A (230 Vac)
PFC	< 0.92 @ 340 Vac, < 0.98 A 115 Vac at full load
Output	
Nominal voltage	12 V, 15 V, 24 V, 48 V
Initial voltage setting	1%
Hold-up time	> 16 ms (115 Vac), > 32 ms (230 Vac) at full load
Voltage regulation	± 1% line regulation; ± 1% load regulation
Ripple	250 mV p-p
Overload protection	> 102% of rated output current, hiccup mode and auto recovery after fault condition removed.
Overvoltage protection	115% of Vo nominal, latch-off mode
Time and temperature drift	< 0.03%

General Specifications

EMC emissions	EN55022 Radiated and Conducted Class B
EMC standard	EN61000-3-2; 2006 Class A, EN61000-3-3: 1995 + A1: 2001 + A2: 2005 EN61204-3: 2000, EN55024: 1998 + A1: 2001 + A2: 2003 light industry level, criteria A
Warranty	3 Years
Status indicators	Visual: DC ON (LED)

Environmental Specifications

Storage temperature	-40 °C to + 85 °C
Operating temperature	From -20 °C to 70 °C. Derate starting at 50 °C
Vibration	0-500 Hz, 2 G 10 min/1 cycle, along X, Y, Z each axis, 60 min for each axis

Other Features

External fusing	Not required. Unit provides internal fuse (not accessible)	
Mounting orientation	Standard: Vertical Simple snap-on to DIN TS35/7.5 or TS35/15 rail system	
Ventilation	Normal convection, No fan required	
Cooling spacing	All models	All sides, 25 mm free space
Connections	Input/Output: Screw terminals, 24-10 AWG (0.2 – 4 mm ²) for flexible/solid cable, Input connector can withstand torque at maximum 9 pound-inches. Output connector can withstand torque at maximum 5.5 pound-inches 8 m/m stripping at cable end recommends	

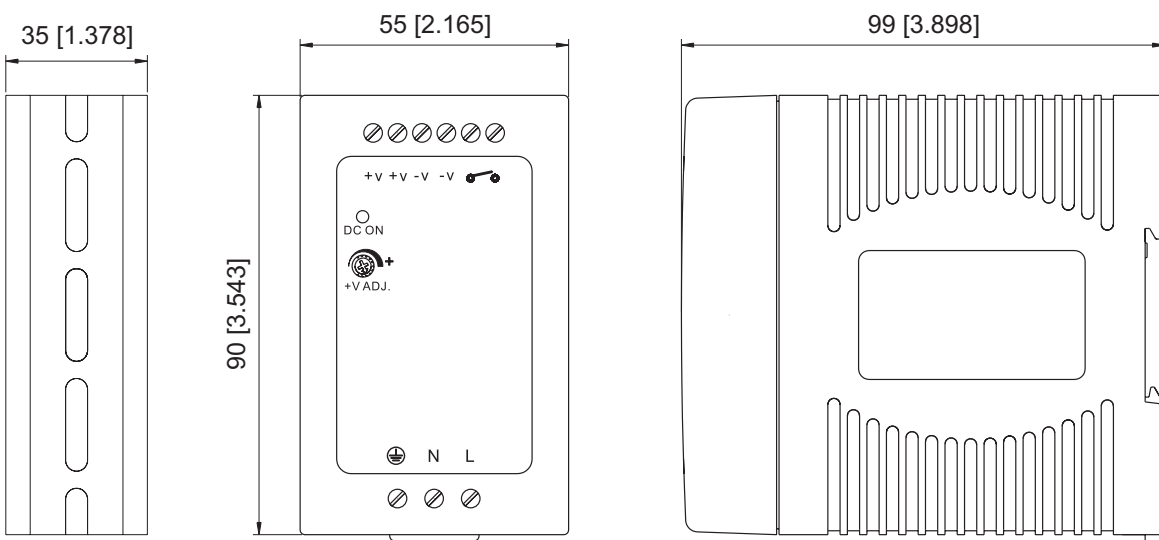
Ordering Information

Model Number	Power	Input Voltage	Weight	Output	Efficiency	MTBF
						MIL-HDBK-217F
ADNB075-12-1PM-C	90 W	88 - 264 Vac 124 - 370 Vdc	0.88 lbs (400 g)	12 V @ 7.5 A	87%	366.4 KHrs
ADNB064-15-1PM-C	96 W	88 - 264 Vac 124 - 370 Vdc	0.88 lbs (400 g)	15 V @ 6.4 A	87%	366.4 KHrs
ADNB040-24-1PM-C	96 W	88 - 264 Vac 124 - 370 Vdc	0.88 lbs (400 g)	24 V @ 4 A	88%	366.4 KHrs
ADNB020-48-1PM-C	96 W	88 - 264 Vac 124 - 370 Vdc	0.88 lbs (400 g)	48 V @ 2 A	87%	366.4 KHrs

Dimensions

	Height	Width	Depth
ADNB075-12-1PM-C	3.54 in (90 mm)	2.16 in (55 mm)	3.9 in (99 mm)
ADNB064-15-1PM-C	3.54 in (90 mm)	2.16 in (55 mm)	3.9 in (99 mm)
ADNB040-24-1PM-C	3.54 in (90 mm)	2.16 in (55 mm)	3.9 in (99 mm)
ADNB020-48-1PM-C	3.54 in (90 mm)	2.16 in (55 mm)	3.9 in (99 mm)

Mechanical Drawing



install DIN rail TS-35 / 7.5 or TS-35 / 15

Unit : mm / inch

WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
Tempe, AZ 85282
USA
+1 888 412 7832

Europe (UK)

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

Asia (HK)

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

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

ADNB-C-96W DS 22Nov2016