

PDA1024-01

DIN-Rail Mounted 24 VDC Power Supply



KEY FEATURES

- 1.5 Amp @ 24 VDC Power Supply
- DIN Rail Mountable
- UL Recognized Component

OVERVIEW

The PDA1024-01 is a DIN rail mounted 1.5 A, 24 VDC power supply that can be used for a variety of functions; the most common of which is powering 4-20 mA transmitters.

ORDERING INFORMATION

Ordering Guide	
Model	Description
PDA1024-01	24 VDC Power Supply for DIN Rail
PDA1002	6" DIN Rail Mounting Kit

Disclaimer

The information contained in this document is subject to change without notice. Precision Digital Corporation makes no representations or warranties with respect to the contents hereof, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose. See Warranty Information and Terms & Conditions on www.predig.com for complete details.

© 2020 Precision Digital Corporation. All rights reserved.

SPECIFICATIONS

General

Input Voltage: 85-264 VAC; 120-370 VDC

Output Voltage: 21.6-29 VDC; $\pm 10\%$ 1.5 A rated current.

See output rating table below.

Input Frequency: 47-63 Hz

AC Current: 115 VAC: 0.88 A; 230 VAC: 0.48 A

Inrush Current: 115 VAC: 25 A; 230 VAC: 45 A cold start

Connections: Screw terminals

Setup, Rise Time: 115 VAC: 500 ms, 50 ms;

230 VAC: 500 ms, 50 ms at full load

Hold Time: 115 VAC: 21 ms; 230 VAC: 30 ms at full load

Over Load Protection: 105-160% rated output power. Constant current limiting, recovers automatically after fault condition is removed

Over Voltage Protection: Shut down o/p voltage, re-power on to recover

Operating Temperature: -30 to 60°C (-22 to 140°F)

Working Humidity: 20% to 90% RH non-condensing

Storage Temperature, Humidity: -40° to 85°C (-40 - 185°F), 10% to 95% RH

Temperature Coefficient: $\pm 0.03\%/^{\circ}\text{C}$ (0 to 50°C)

Vibration: 10-500 Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes

Safety Standards: UL 508 Listed and UL Recognized Component
UL File: E183223

Withstand Voltage: I/P-O/P: 4 KVAC

Isolation Resistance: I/P-O/P: 100M Ohms / 500 VDC

EMC: EN55032 (CISPR22) Class B,

EN61000-3-2,-3

EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024,

EN61000-6-1, EN61204-3 Light industry, Criteria A

MTBF: 968.1K hrs min. MIL-HDBK-217F (25°C)

Dimensions: 1.40" x 3.50" x 2.10" (35 mm x 90 mm x 54.5 mm)
(W x H x D)

Warranty: 1 year parts & labor

Output Ratings

DC Voltage	Rated Current	Current Range	Rated Power	R&N
24 V	1.5 A	0-1.5 A	36 W	150 mV
Volt. Adj.	Tol.	Line Reg.	Load Reg.	Eff.
21.6-29 V	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	89%



WARNING
Cancer and Reproductive Harm - www.P65Warnings.ca.gov

LDS1024-01_D 10/20