



SDP™ Low Power DIN Rail Series

The compact, lightweight DIN Rail power supplies come in output voltages from 5 to 48 Vdc and power ratings of up to 100 Watts. These extra small, efficient units are designed specifically for the industrial environment. Each unit is rated from -10°C to 70°C, with no derating necessary until above 60°C.

Many extra "industrial" features are standard for the SDP PowerBoostTM overload circuitry can start up industrial loads (i.e. motors, relays, solenoids and DC-DC converters), that can cause ordinary power supplies to foldback or shutdown. Each unit contains a DC indicator and front panel adjustment potentiometer. With the SolaHD SDP series, you can count on a high grade design.

SOLA Promot Supply SOLA Pro









Features

- Ultra slim 15W footprint
- No tools required for mounting
- Adjustable output
- PowerBoost[™] industrial overload design
- Overvoltage, short circuit protection
- NEC Class 2 Current Limited
- Continuous short circuit protection
- · Low output noise
- Screw terminal connections
- RoHS Compliant
- Three year warranty

Related Products

- SDN™ Series
- SCP Series
- SCL Series

Applications

- Industrial Control
- Process Control
- Machine Control
- Building Automation
- Instrumentation

Selection Table

Catalog Number	DC Output Voltage	Output Current	Ripple / Noise	Size (H x W x D)
SDP 5-5-100T	5 - 6 V	5 A		
SDP 2-12-100T	10 - 12 V	3 - 2.5 A		2.95 in x 1.77 in x 3.58 in
SDP 3-15-100T	12 - 15 V	4.2 - 3.4 A	_	(75 mm x 45 mm x 91 mm)
SDP 1-48-100T	48 - 56 V	1 A		
SDP 06-24-100T		0.6 A	<50 mVpp	2.95 in x 0.9 in x 3.8 in (75 mm x 22.8 mm x 96.7 mm)
SDP 1-24-100T		1.3 A		2.95 in x 1.77 in x 3.58 in
SDP 2-24-100T	24-28 Vdc	2.1 A		(75 mm x 45 mm x 91 mm)
SDP 4-24-100LT		3.8 A		2.95 in x 2.85 in x 3.8 in (75 mm x 72.5 mm x 96.7 mm)
SDP 4-24-100RT*		4.2 A		

^{*} NEC Class 1





SDP™ Series Specifications (Other Voltages)

5–100T					
	SDP 2-12-100T	SDP 3-15-100T	SDP 1-48-100T		
	Input				
85-264 Vac, 90-375 Vdc					
47-63 Hz					
0.6 A @ 102 Vac; 0.33 A @196 Vac		1.0 A @ 102 Vac; 0.6 A @ 196 Vac	<1.0 A @ 100 Vac; <0.6 A @ 196 Vac		
Not required. Unit provides internal fuse (T3A, not accessible)					
> 25 ms					
> 80% typ.		> 86% typ.	> 90% typ.		
7.5 W typ. 8.1 W typ.		< 8.1 W typ.			
	Output				
- 6 min adj.)	12 Vdc (9.9 - 12.1 min adj.)	15 Vdc (11.9 - 15.1 min adj.)	48 Vdc (48 - 56 min adj.)		
< 2% Dynamic; < 0.5% Static					
< 50 mVpp					
Vdc	> 18 Vdc	> 20 Vdc	> 56 Vdc		
Radiated EMI values below EN61000-6-2					
V _{out} = 5.1V	3A @ 10 Vdc 2.5A @12 Vdc	4.2A @ 12 Vdc 3.4A @ 15 Vdc	Up to 1.05A @ 48 V 0.9A @ 56 V		
Continuous operation at overload/short-circuit: up to 1.5 x Nominal Current Continuous					
Unit is	s continuously protected against	short-circuit, overload and open-ci	rcuit.		
V	22	2 V	80 V		
	Installation				
Green LED on, when V _{out} "OK".					
Molded plastic housing using UL 94 approved flameproof material rating 94V-2. Simple snap-on to DIN TS35/7.5 or TS35/15 rail system.					
	Dimensions				
2.95 x 1.77 x 3.58 (75 x 45 x 91)					
0.5 lbs (.23 kg)					
Standard: Vertical; Optional: Horizontal or On Top (Contact Technical Services).					
Normal convection, no fan required; Above/below: 25 mm recommended.					
Input: screw terminals, connector size range: 20-12 AWG (1.5 - 6 mm²) for solid or stranded conductors.					
	General				
Storage: -25°C+85°C Operation: -10°+60°C full power with linear derating to half power from 60°C to 70°C. (Convection cooling, no forced air required).					
> 500,000 hours according to Telcordia/Bellcore Document SR-332, Issue 1.					
Up to 90% RH, noncondensing; IEC 68-2-2, 68-2-3					
EN61000-6-3 (Includes EN61000-6-4) Class B (EN 55022) incl. Annex A					
EN61000-6-2 (Includes EN61000-6-1) (EN55024) Criterion A: no degradation of performance					
SELV (acc. EN60950)					
IP20 (IEC529), Protection Class 1 (IEC536)					
	3 y	ears			
	Safety				
		IP20 (IEC529), Protection 3 y Safety Zone 2 Hazardous Locations, Temp Class T3), UL3	IP20 (IEC529), Protection Class 1 (IEC536) 3 years		

Notes:

- 1. Not UL listed for DC input.
- $\hbox{2. Ripple/noise is stated as typical values when measured with a 20 MHz, bandwidth scope and 50 Ohm resistor.}$
- 3. Not to exceed 30 watts total.