

AUTOMATION & CONTROL

ENCLOSURES

POWER SUPPLIES

INTERCONNECT

TEST & MEASUREMENT

PASSIVE & ACTIVE

OPTOELECTRONICS

ASSEMBLY

INDEX

**SDN-C Thin DIN Rail Series**

**Features**

- ▶ Compact Packaging to Save Space on the DIN Rail. 27% Reduction in Width Compared to Existing 10 A Model. 23% Reduction in Width Compared with Existing 5 A Model
- ▶ Higher Efficiency Saves Energy and Lowers Amount of Heat Generated in Panel
- ▶ User Friendly: LEDs for Status; Large, Rugged, Accessible Screw Terminals; Easy On/Off DIN Mounting
- ▶ PowerBoost Overload Capability to Start High Inrush Loads

- ▶ Accepts Universal Voltage 85/264 VAC, 50/60 Hz Input
- ▶ Patented, Easy DIN Rail Mounting Clip
- ▶ User Adjustable Output Voltage Accessible via Front Face
- ▶ Parallel Capability Standard
- ▶ Class 1, Div 2 Hazardous Locations Rating — ATEX Approved on Select Models\*
- ▶ Five-Year Warranty

**Applications**

- ▶ Industrial Machine Control
- ▶ Process Control
- ▶ Conveying Equipment
- ▶ Material Handling
- ▶ Vending Machines
- ▶ Packaging Equipment
- ▶ Amusement Park Equipment
- ▶ Semiconductor Fabrication Equipment



SDN5-24-100C

SDN10-24-100C



SDN20-24-100C

SDN40-24-100C

Stock No.	Mfr.'s Type	Output Voltage (VDC)	Output Current (Amps)	Input Voltage	Input Current (Amps)	Dimensions H x W x D (Inches)	EACH
70211383	SDN5-24-100C*	22.5-28.5	5	85-264 VAC, 90-375 VDC	1.65-0.55	4.88 x 1.97 x 4.55	256.14
70211384	SDN10-24-100C*	22.5-28.5	10	85-264 VAC, 90-375 VDC	3.20-1.00	4.88 x 2.36 x 4.55	373.01
70211530	SDN20-24-100C*	24.0-28.0	20	85-264 VAC, 90-375 VDC	6.00-3.00	4.88 x 3.42 x 4.98	620.80
70305525	SDN40-24-100C*	23.5-28.5	40	85-264 VAC, 90-375 VDC	12.00-4.00	4.85 x 7.09 x 4.81	804.63

\*ATEX Approved.

**Three Phase**

Stock No.	Mfr.'s Type	Output Voltage (VDC)	Output Current (A)	Input Voltage	Input Current (A)	Inrush Current (A)	Ripple (mV <sub>P-P</sub> )	Dimensions H x W x D (Inches)	EACH
70228392	SDN5-24-480C*	23.5-28.5	5	320-540 VAC 3 Ph.	3 x 0.50 or 2 x 0.70	<25	<100	4.85 x 1.97 x 4.36	269.12
70211533	SDN10-24-480C*	23.5-28.5	10	320-540 VAC 3 Ph.	3 x 0.80 or 2 x 1.20	<25	<100	4.85 x 2.36 x 4.36	387.62
70211531	SDN20-24-480C	24.0-28.0	20	320-540 VAC 3 Ph.	3 x 0.90 or 2 x 1.30	—	<100	4.85 x 3.35 x 4.68	523.23
70211532	SDN40-24-480C	24.0-28.0	40	320-540 VAC 3 Ph.	3 x 1.60	—	<100	4.85 x 7.09 x 4.66	781.64

\*ATEX approved.

**SDN Accessories**

Stock No.	Mfr.'s Type	Description	EACH
70209165	SDNPMBRK2	SDN Metal Chassis Mounting Kit	6.11

**Mini-DIN Rail Power Supplies — SDP Series**

- ▶ Easy Output Adjustment with Front Panel Potentiometer
- ▶ PowerBoost Included — Powers High Inrush Loads without Shut Down or Foldback
- ▶ Easy Screw Clamp Connections — Meets IP20 Standards, Accepts 10-16 AWG Wire
- ▶ Over-Voltage Protection — Protects Loads from Damage Due to High Voltage
- ▶ Short Circuit Protection — Withstands Short Circuits with No Damage or Degradation of the Power Supply
- ▶ Rated from -10 to +70°C with No Derating Needed Until After 60°C
- ▶ NEC Class 2 Current Limited Except as Indicated\*
- ▶ Three-Year Warranty — Warranties the Power Supply for Three Years



Stock No.	Mfr.'s Type	Output Voltage (VDC)	Output Current (Amps)	Input Voltage (VAC)	Input Current (Amps)	Dimensions H x W x D (Inches)	EACH
70211365	SDP5-5-100T	5-5.5	5.00	85-264	<0.9	2.95 x 1.77 x 3.58	109.86
70211367	SDP2-12-100T	10-12.0	2.50	85-264	<0.9	2.95 x 1.77 x 3.58	122.84
70211381	SDP3-15-100T	12-15.0	3.40	85-264	1.0	2.95 x 1.77 x 3.58	135.82
70211363	SDP06-24-100T	24-28.0	0.63	85-264	<0.9	2.95 x 0.90 x 3.80	59.51
70211371	SDP1-24-100T	24-28.0	1.30	85-264	0.7	2.95 x 1.77 x 3.58	85.40

Stock No.	Mfr.'s Type	Output Voltage (VDC)	Output Current (Amps)	Input Voltage (VAC)	Input Current (Amps)	Dimensions H x W x D (Inches)	EACH
70211373	SDP2-24-100T	24-28.0	2.10	85-264	<0.9	2.95 x 1.77 x 3.58	107.75
70211380	SDP4-24-100LT	24-28.0	3.80	85-264	2.2	2.95 x 2.85 x 3.80	145.77
70211382	SDP4-24-100RT*	24-28.0	4.20	85-264	<0.9	2.95 x 2.85 x 3.80	145.77
70211375	SDP1-48-100T	48-56.0	1.00	85-264	<0.9	2.95 x 1.77 x 3.58	123.84
—	—	—	—	—	—	—	—

\*NEC Class 1 current limited.

**Compact DIN Rail Power Supplies — SDN-P Series**

The SDN DIN Rail power supply products provide industry leading performance. Sag immunity, transient suppression and noise tolerant, the SDN series ensures compatibility in demanding applications. Power factor correction to meet European directive, hazardous location approvals and optional redundant accessories allow the SDN series to be used in a wide variety of applications. Wide operation temperature range, high tolerance to shock and vibration and reliable design make the SDN series the definition of DC power quality.

- ▶ Power Factor Correction — Per EN61000-3-2 Class 1, Zone 2 Hazardous Locations
- ▶ Auto Select 115/230 VAC, 50/60 Hz Input
- ▶ Highly Efficient — >90% Switching Technology
- ▶ DC OK Signal
- ▶ Adjustable Output Voltage
- ▶ Frequency: 47-63 Hz
- ▶ -10 to 60°C Operation without Derating
- ▶ Indefinite Short Circuit, Overvoltage and Over Temperature Protection
- ▶ Powers High Inrush Loads without Shutdown or Foldback
- ▶ Parallel Capability Standard on All Units

- ▶ Rugged Metal Case and DIN Connector
- ▶ Improved Metal Mounting Clip Withstands Up to 40 G of Shock
- ▶ Narrow Width on Rail for Space Critical Applications
- ▶ Single-Phase Models Meet SEMI F47 Sag Immunity
- ▶ SDN2.5-24-100P and SDN4-24-100LP Meet NEC Class 2
- ▶ Five-Year Warranty
- ▶ RoHS Compliant Product Is Available, Contact Your Local Allied Sales Representative
- ▶ 2N and N+x Configurations Possible with Redundant Module, Contact Your Local Allied Sales Representative



SDN Group

Stock No.	Mfr.'s Type	Output Voltage (VDC)	Output Current (Amps)	Input Voltage	Input Current (Amps)	Inrush Current (Amps)	Output Ripple (mV <sub>P-P</sub> )	Dimensions H x W x D (Inches)	EACH
70211389	SDN9-12-100P	11.8-15.2 VDC Adj.	9.0	85-132/176-264 VAC, 210-375 VDC	2.00/1.50	<20.0	<50	4.88 x 2.56 x 4.55	256.26
70211390	SDN16-12-100P	11.6-14.0 VDC Adj.	16.0	85-132/176-264 VAC, 210-375 VDC	3.30/1.70	<40.0	<50	4.88 x 3.26 x 4.55	373.13
70211350	SDN2.5-24-100P	22.5-28.5 VDC Adj.	2.5	85-132/176-264 VAC, 90-375 VDC	1.30/0.70	<25.0	<50	4.88 x 1.97 x 4.55	163.73
70211379	SDN4-24-100LP	22.5-25.5 VDC Adj.	3.8	85-132/176-264 VAC, 210-375 VDC	2.10/1.00	<15.0	<50	4.88 x 2.56 x 4.55	244.47
70211351	SDN5-24-100P	22.5-28.5 VDC Adj.	5.0	85-132/176-264 VAC, 210-375 VDC	2.20/1.00	<15.0	<50	4.88 x 2.56 x 4.55	256.26
70211354	SDN10-24-100P	22.5-28.5 VDC Adj.	10.0	85-132/176-264 VAC, 210-375 VDC	5.00/2.00	<30.0	<50	4.88 x 3.26 x 4.55	373.13
70211388	SDN5-48-100P	35.8-52.5 VDC Adj.	5.0	85-132/176-264 VAC, 210-375 VDC	4.00/2.30	<40.0	<50	4.88 x 3.26 x 4.55	373.13