SDN-C Compact DIN Rail Series

The SDN-C DIN rail power supplies are the next generation of the popular SDN series. These models combine high efficiency and compact size with new visual diagnostic LEDs to offer the most performance available from SolaHD. Essential industrial features such as Sag Immunity, Power Factor Correction, and universal voltage input have been retained in this series. Wide temperature operating range and parallel operation capability make the new SDN-C units suitable to a variety of industrial applications.

Applications

- Industrial Machine Control and Process Control
- Conveying Equipment
- Material Handling
- Vending Machines
- Packaging Equipment and Amusement Park Equipment
- Semiconductor Fabrication Equipment
- DeviceNet[™]

Features

- Compact packaging to save space on the DIN rail
- Visual diagnostic LEDs for input and output status at a glance
- High MTBF means high reliability and long life
- Higher efficiency saves energy and lowers amount of heat generated in panel
- PowerBoost[™] overload capability to start high inrush loads
- Accepts Universal voltage 85-264 Vac, 50/60 Hz input
- Active Power Factor Correction
- Patented DIN rail mounting clip
- User Adjustable output voltage accessible via front face
- Parallel capability standard
- Large, rugged, accessible screw terminals
- Industrial grade design
 - -25°C to 60°C operation without derating
- Fully tested and burned-in at factory
- Highly efficient switching technology
- Five year limited warranty

Certifications and Compliances *

All Models

- CUL us Listed, Ind. Control Equipment, E61379
- UL 508, CSA C22.2 No. 107.1



- c UL Recognized Component, ITE, E137632 - UL 60950-1/CSA C22.2 No. 60950-1, 2nd Edition
- CE Low Voltage Directive
 - IEC/EN60950-1, 2nd Edition
- Sag Immunity: SEMI F47
- RoHS Compliant

Models SDN 20-24-100C, SDN 20-24-480CC, SDN 40-24-480C

- c**AU**us UL Recognized Component, Haz. Loc., E234790
 - ISA 12.12.01, CSA C22.2 No. 213
 - Class I, Division 2, Groups A, B, C, D

Models SDN 5-24-100C, SDN 10-24-100C, SDN 40-24-100C, SDN 5-24-480C, SDN 10-24-480C

- c Nus UL Recognized Component, Haz. Loc., E234790
 - UL 60079-15/CSA E60079-15
 - Class I, Zone 2, AEx nC IIC, Ex nC IIC
- Ger ATEX Directive
 - EN60079-0, EN60079-15
 - 🖾 II 3 G, Ex nC IIC Gc

Related Products

- SDN-P series
- SDP[™] series
- SCP series
- SDU UPS

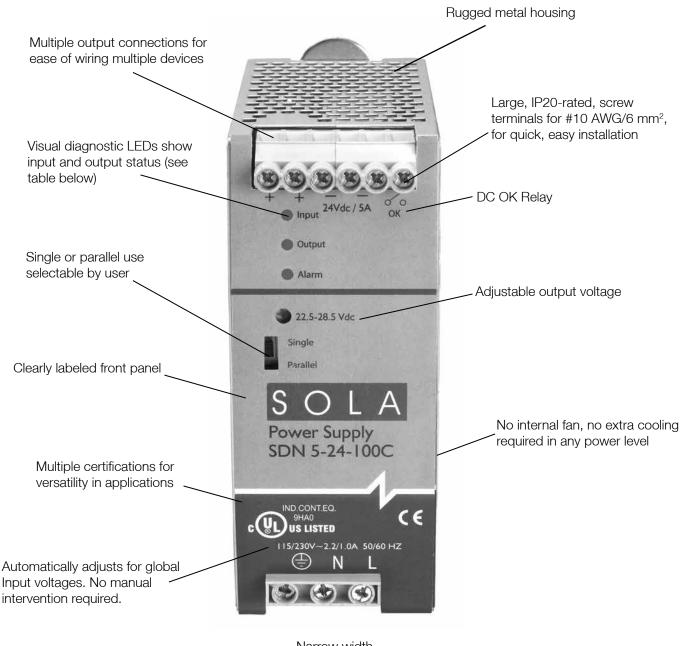
Accessories

• Chassis Mount Bracket (SDN-PMBRK2)

* Refer to user manual for installation requirements when used in hazardous locations.

Power Supplies

The SolaHD Difference



Narrow width saves panel space

LED Light Status Conditions

	Normal	AC Power Loss	AC Input Low	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

Contact Technical Services at (800) 377-4384 with any questions. Visit our website at www.solahd.com.

SDN-C Specifications (Single Phase)

-	Catalog Number						
Description	SDN 5-24-100C	SDN 10-24-100C					
	Input						
Nominal Voltage	11!	5 - 230 Vac					
–AC Range	85	5 - 264 Vac					
–DC Range ¹	90	- 375 Vdc					
-Frequency	4	3 - 67 Hz					
Nominal Current ²	1.65 - 0.55 A	3.2 - 1.0 A					
-Inrush current max.	Typ. < 15 A	Typ.< 30 A					
Efficiency (Losses ³)	> 88% typ. (14 W)	> 90% typ. (24 W)					
Power Factor Correction	Active power factor of	correction to better than 0.92					
	Output						
Nominal Voltage ⁴		.5~28.5 Vdc Adj.)					
-Tolerance		pad, time and temperature related changes)					
Initial Voltage Setting		1.5 V ± 1%					
-Ripple ⁵	<	50 mVpp					
PARD		Deviation) = 100 mV peak-peak max					
Overvoltage Protection		33 Vdc, auto recovery					
Power Back Immunity		< 35 V					
Nominal Current	5 A (120 W)	10 A (240 W)					
–Peak Current ⁶		ds minimum while holding voltage > 20 Vdc					
		ar zero volts at short circuit condition					
-Short Circuit Current -Current Limit		werBoost™					
		by be damaged by parallel operation (regardless of switch position setting).					
Parallel Operation							
Holdup Time Voltage Fall Time	>20 ms (Full load, 100 Vac Input @ T_{amb} =+25°C) to 95% output voltage						
Line and Load Regulation	<150 mS from 95% to 10% rated voltage @ full load (T _{amb} =+25°C) < 0.5%						
Line and Load negulation	General						
EMC:							
–Emissions	EN61000-6-2:2001, EN61000-6-3:2001, Class B EN55011, I	EN55022 Radiated and Conducted including Annex. A, EN61000-3-2					
–Immunity		N61000-4-3 Level 3, EN61000-4-6 Level 3, EN61000-4-4 Level 4 input and 1000-4-11, IEC 61000-4-34 voltage dip immunity standard					
Temperature ⁷	forced	with linear derating to half power from 60 to 70°C (Convection cooling, no d air required). th sideways or front side up mounting orientation.					
MTBF ⁸	>5	550,000 hrs					
Warranty	5 Year L	imited Warranty					
General Protection/ Safety		uit, continuous overload, continuous open circuit. P20 (IEC60529) Safe low voltage: SELV (acc. IEC60950-1)					
Status Indicators	Visual: 3 status Lf	EDs (Input, Output, Alarm) act rated 200ma/50 Vdc					
	Installation						
Fusing –Input		ernally fused					
–Output		of time for inductive load startup or switching. Fusing may be required for rated. Continuous current overload allows for reliable fuse tripping.					
Mounting		S35/7.5 or TS35/15 rail system.					
Connections		5-6 mm²) for solid conductors. Screw torque: 4.4 lb-inch (~ 50 N-cm). VG (1.5-6 mm²) for solid conductors. Screw torque: 7 lb-inch (~ 80 N-cm).					
Case		fine ventilation grid to keep out small parts.					
-Free Space	, , , , , , , , , , , , , , , , , , , ,	0 mm left and right, 15 mm in front					
H x W x D inches in (mm)	4.85 × 1.97 × 4.36 (123.0 × 50.0 × 110.0)	4.85 × 2.36 × 4.36 (123.0 × 60.0 × 110.0)					
	1.1 (0.50)	1.7 (0.80)					

1. Not UL listed for DC input.

2. Input current ratings are conservatively specified with low input, worst case efficiency and power factor.

3. Losses are heat dissipation in watts at full load, nominal input line.

4. 24-28 Vdc adjustable guaranteed at full load.

5. Ripple/noise is stated as typical values when measured with a 20 MHz, bandwidth scope and 50 Ohm resistor.

6. Peak current is calculated at 24 Volt levels.

7. Contact tech support for operation at -25° C.

8. Demonstrated through extended life test.



SDN-C Specifications (Single Phase)

Description	Catalog Number							
Description	SDN 20-24-100C SDN 40-24-100C Input							
Nominal Voltage		- 230 Vac						
–AC Range	85 -	264 Vac						
-DC Range ¹		375 Vdc						
		- 67 Hz						
-Frequency	6 - 3 A	12 - 4 A						
Nominal Current ²								
-Inrush current max.	< 40 A	Typ. <60 A						
Efficiency (Losses ³)	> 92% (38 W)	> 93 % (67 W)						
Power Factor Correction		prrection to better than 0.92						
	Output							
Nominal Voltage ⁴		i~28.5 Vdc Adj.)						
-Tolerance		ad, time and temperature related changes) $5 V \pm 1\%$						
Initial Voltage Setting	<100 mVpp	< 100 mVpp						
–Ripple ⁵								
PARD		Deviation) = 100 mV peak-peak max						
Overvoltage Protection		3 Vdc, auto recovery						
Power Back Immunity Nominal Current	20 A (480 W)	40 A (960 W)						
		minimum while holding voltage > 20 Vdc						
–Peak Current ⁶ –Short Circuit Current	1.5 x Nominal Current at near zero volts at short circuit condition	1.8 x Nominal Current at or near zero volts at short circuit condition						
–Current Limit	Switch selectable single unit or parallel unit operation. Units will not be							
Parallel Operation ⁷	damaged by parallel operation (regardless of switch position setting).	Active Paralleling						
Holdup Time	>20 mS (Full load, 100 Vac Input	@ T _{amb} =+25°C) to 95% output voltage						
Voltage Fall Time	<150 mS from 95% to 10% ra	ted voltage @ full load (T _{amb} =+25°C)						
Line and Load Regulation	<	0.5%						
	General	1						
EMC: –Emissions	EN61000-6-2:2001, EN61000-6-3:2001, Class B EN55011, EN55022 Radiated and Conducted including Annex. A, EN61000-3-2	EN61000-6-3, EN61000-6-4, Class B EN55011, EN55022 Radiated and Conducted including Annex A, EN61000-3-2, EN61000-3-3						
–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	EN61000-6-1, EN61000-6-2, EN61000-4-2 Level 4, EN61000- 4-3 Level 3, EN61000-4-4 Level 4 input and Level 3 output, EN61000-4-5 Installation Class 4, EN61000-4-6 Level 3, EN61000-4-8, EN61000-4-11, SEMI F47 Sag Immunity, Transient protection according to VDE 0160/W2 over entire load range.						
Temperature ⁸		with linear derating to half power from 60 to 70°C (Convection cooling, nissible with sideways or front side up mounting orientation.						
MTBF ⁹	> 450,000 hrs	> 500,000 hours demonstrated						
Warranty	5 Year Lir	nited Warranty						
General Protection/Safety	Protected against continuous short -circuit, continuous overload, cont	inuous open circuit. Protection Class 1 (IEC536), degree of protection IP20 age: SELV (acc. IEC60950-1)						
Status Indicators	Visual: 3 status LEI	Ds (Input, Output, Alarm) ct rated 200ma/50 Vdc						
	Installation	ci rated zooma so vuc						
Fusing –Input		nally fused						
-Output	Outputs are capable of providing high currents for short periods of time	for inductive load startup or switching. Fusing may be required for wire/loads Continuous current overload allows for reliable fuse tripping.						
Mounting	Simple snap-on to DIN TS	35/7.5 or TS35/15 rail system.						
Connections ¹⁰	Input: Screw terminals, connector size range: 16-10 AWG (1.5-6 mm ²) for solid conductors. Screw Torque: 4.4 lb-in (~ 50 N-cm). Output: Two terminals per output, connector size range: 16-10 AWG (1.5-6 mm ²) for solid conductors. Screw Torque: 7 lb-inch (~ 80 N-cm)	Input: Screw terminals, connector size range: 16-10 AWG (1.5-6 mm ²) for solid conductors. Screw Torque: 4.4 lb-inch (~ 50 N-cm). Output: Two terminals per output, connector size range: 10-6 AWG (6-14 mm ²) for solid conductors. Screw Torque: 15.6 lb-inch (~ 176 N-cm).						
Case		re ventilation grid to keep out small parts.						
-Free Space		10 mm left and right, 15 mm in front						
H x W x D inches in (mm)	4.85 x 3.42 x 4.98 (123.0 x 87.0 x 127.0)	4.85 x 7.09 x 4.81 (123.0 x 180.0 x 122.0)						
Weight Ibs (kg)	2.6 (1.20)	6.0 (2.75)						
 Not UL listed for DC inp 2. Input current ratings are efficiency and power fac 3. Losses are heat dissipa 4. 24-28 Vdc adjustable g 	vit. 6. Peak e conservatively specified with low input, worst case 7. All models ctor. jumpe ctor. signal uaranteed at full load. 8. Conta s typical values when measured with a 20 MHz, bandwidth 9. Demistor.	current is calculated at 24 Volt levels. Indels except the 40amp unit are capable of parallel operation by use of a er pin, accessible by the end user. 40 amp unit will have active current sharing						

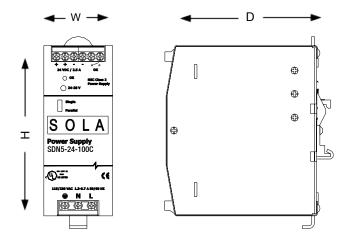
SDN-C Specifications (Three Phase)

Description		Catalog	Number		
Description	SDN 5-24-480C	SDN 10-24-480C	SDN 20-24-480CC	SDN 40-24-480C	
Nominal Voltage		380 - 4			
Two – phase input		Yes			
-AC Range ²		320 - 5			
-DC Range	450 - 760 Vdc	450 - 760 Vdc	450 - 760 Vdc ¹⁰	N/A	
-Frequency		50/6	0 Hz		
Nominal Current ³	3 x 0.5 or 2 x 0.7 A	3 x 0.8 or 2 x 1.2 A	3 x 0.9 or 2 x 1.3 A	3 x 1.6 A	
-Inrush current max.	Тур. «	<25 A	Negligible	Negligible	
Efficiency (Losses ⁴)	> 85% (18 W)	91.2% (23.6 W)	93% (42 W)	94% (78 W)	
Power Factor Correction	Power factor correction to r	meet EN61000-3-2 Class A	Active Power F	actor Correction	
		Out			
Turn on time		Тур.			
Voltage Rise Time	ca. 5-			e load (T _{amb} =+25°C)	
Power Back Immunity		<35			
Overvoltage Protection		>30.5 but <33 Vo	dc auto recovery		
Nominal Voltage ⁵		24 V (23.5~2	8.5 Vdc Adj.)		
Voltage Regulation		< ±2 %			
Initial Voltage Setting		24.5 V	± 1%		
-Ripple ⁶		<100	mVpp		
PARD	PARD = 100 mV	peak-peak max	PARD = 200 m	/ peak-peak max	
Nominal Current	5 A (120 W)	10 A (240 W)	20 A (480 W) (constant power, not constant current)	40 A (960 W)	
–Peak Current ⁷	6A, 2×Nominal Current <2sec	rrent <2sec 12A, 2×Nominal Current <2sec 1.5×Nominal Current for 4 sec minimum while he			
–Current Limit		PowerE	loost™		
Derating	typ. 6 W/°C	typ. 12 W/ºC	typ. 24 W/ºC	typ. 48 W/°C	
Holdup Time	<u> </u>	>20 ms		>15 ms	
Voltage Fall Time	<150 ms from 95% to 10% rated	-	<50 ms from 95% to 10% rated	voltage @ full load (T _{amb} =+25°C)	
		el operation selectable via front switch		e (and)	
Parallel Operation ⁸	operatio	on, use of external diode module is pr	referred	Active Paralleling	
		Gene			
Case	FI	ully enclosed metal housing with fine	ventilation grid to keep out small parts	3.	
Min. Required Free Space	25mm above and below or 15mm in front	25mm above and below or 10mm in front	70mm above and below or 25mm in front and 25mm left & right	70mm above and below, 15mm ir front, 25mm left & right	
H×W×D inches (mm)	4.85 × 1.97 × 4.36	4.85 × 2.36 × 4.36	4.85 x 3.35 x 4.68	4.85 x 7.09 x 4.66	
. ,	(123.0 × 50.0 × 111.0) 1.2 (.52)	(123.0 × 60.0 × 111.0) 1.5 (0.70)	(123.0 x 85.0 x 119.0) 2.9 (1.30)	(123.0 x 180.0 x 119.0) 5.3 (2.40)	
Weight Ibs (kg)	. ,	1, Class B EN55011, EN55022 Radia			
EMC: –Emissions		1, EN61000-6-2:2001, EN61000-4-2			
–Immunity		4-4 Level 4 input and level 3 output.			
Temperature	Storage : -40 to + 85°C, Operation	-25 to +60°C full power, with linear d eration up to 50% load permissible w	erating to half power from 60 to 70°C	(Convection cooling, no forced air	
Humidity	. , 1	< 90% RH, noncondensin		-	
Altitude		0 to 3000 meters			
Vibration	2.5(a) RMS, 10-2000 Hz (random); three a		-2-6	
Shock		3(g) peak, three axes, 11msecond			
Warranty	<u> </u>	5 Year Limite			
MTBF		>500,000 hrs MTBF (Nominal			
mi vr	Protected against sho	rt -circuit, overload, open circuit. Prot		otection IP20 (IEC 529)	
General Protection/Safety			ELV (acc. EN60950)		
Over-temperature protection			own with automatic restart		
Status Indicators	Visual: 3 status LEDs (I	nput, Output, Alarm) Relay: SSR or di		$_{\rm out} = 18.5 \rm Vdc = +/-5\%$	
		Install			
Fusing: –Input		External			
–Output	Not fueer	I. Output is capable of providing high		Istartup	
	- Not lused	Simple snap-on to DIN TS35		· otartap.	
Mounting	Unit should hand	le normal shock and vibration of indu		alling off the rail.	

1. SDN 20 will operate at 75% load; SDN 40 will operate at 50% load under loss of 1 scope and 50 Ohm resistor. 7. SDN 20 and 40 unit will go to HICCUP mode. SDN 5 and 10 will maintain min 4 phase; SDN 5 and SDN 10 will operate with single phase input power at 100% of load. Unit will shut down if thermal threshold is exceeded under this condition. secs to deliver 150% load then drops to almost zero Vout. The output voltage will im-2. Unit passed input voltage overstress test at 600 Vac without failure. mediately drop to almost zero when load rises above 150%. 3. Input current ratings are specified with low input, line conditions, worst case ef-8. All models except the 40amp unit are capable of parallel operation by use of a ficiency values and power factor spikes. Input current at nominal input settings will jumper pin, accessible by the end user. 40 amp unit will have active current sharing typically be half these values. signal. 9. SDN 40-24-100C only = Output signaling terminal block features (Shut down, 4. Losses are heat dissipation in watts at full load, nominal line. 5. 24-28 Vdc adjustable guaranteed at full load. Power Good, Current Monitor, Current Balance, signal GND). 6. Ripple/noise is stated as typical values when measured with a 20 MHZ, bandwidth 10. 70% maximum rated load.

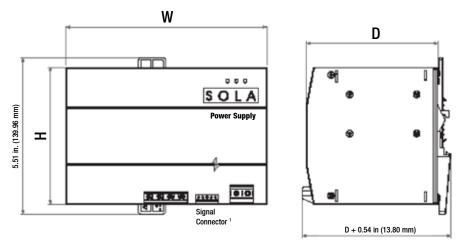
> Contact **Technical Services** at **(800) 377-4384** with any questions. Visit our website at www.solahd.com.

SDN-C Series Dimensions



Catalog	Dimensions – inches (mm)					
Number	H	W	D			
SDN 5-24-100C	4.85 (123.0)	1.97 (50.0)	4.36 (111.0)			
SDN 10-24-100C	4.85 (123.0)	2.36 (60.0)	4.36 (111.0)			
SDN 20-24-100C	4.85 (123.0)	3.42 (87.0)	4.98 (127.0)			
SDN 5-24-480C	4.85 (123.0)	1.97 (50.0)	4.36 (111.0)			
SDN 10-24-480C	4.85 (123.0)	2.36 (60.0)	4.36 (111.0)			
SDN 20-24-480CC	4.85 (123.0)	3.35 (85.0)	4.68 (119.0)			

SDN 40-24-100C and SDN 40-24-480C Dimensions



Catalog	Dimensions – inches (mm)					
Number	H	W	D			
SDN 40-24-100C	4.85 (123.0)	7.09 (180.0)	4.66 (118.0)			
SDN 40-24-480C	4.85 (123.0)	7.09 (180.0)	4.81 (122.0)			

1. SDN 40-24-100C and SDN 40-24-480C output signaling terminal block features: Shut Down, Power Good, Current Monitor, Current Balance, GND, and active current sharing through I_SHARE connectors (See Signals Manual for connection information).

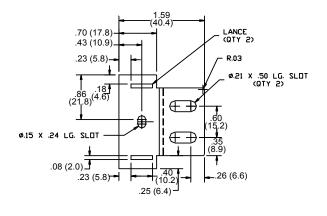
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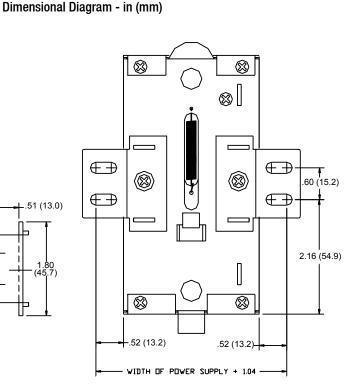
SDN-C Series Mounting

Chassis Mounting

Instead of snapping a SolaHD SDN™ unit on the DIN Rail, you can also attach it using the screw mounting set SDN-PMBRK2.

This set consists of two metal brackets, which replace the existing two aluminum profiles.



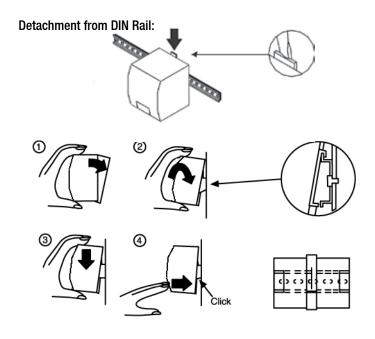


DIN Rail Mounting

Snap on the DIN Rail:

- 1. Tilt unit slightly backwards
- 2. Put it onto the DIN Rail
- 3. Push downwards until stopped
- 4. Push at the lower front edge to lock
- 5. Shake the unit slightly to ensure that the retainer has locked

Alternative Panel Mount: Using the optional SDN-PMBRK2 accessory, the unit can be screw mounted to a panel.



SDN 40-24-100C Competitive Comparison

				<u> </u>	cutive companison
	SolaHD	Phoenix	Siemens	PULS	Allen Bradley
Part Number	SDN 40-24-100C	QUINT-PS/ 1AC/24DC/40	6EP1 337-3BA00	Q\$40.241	1606-XLS960EE
# of Conditions	8	4	3	3	2
Diagnostics	Normal, AC Power Loss, AC Input Law, No DC, High Load, Overload, Hot, Too Hot	IOUT < IN, IOUT > IN, VOUT < 0.9x VN, VOUT >0.9x VN	Normal, Yellow LED, for Overload, RED LED for latching shutdown	Normal, Overload, No DC output	DC ON, DC OFF
Nominal Input Voltage	100-240Vac	100-240Vac	set by jumpers 85-132V/ 176-264V	100-240Vac	200-240Vac
AC Input Range	85-264Vac	85-264Vac	90-264Vac	90-264Vac	90-264Vac
Output Voltage	24 Vdc	24 Vdc	24 Vdc	24Vdc	24Vdc
Ouptut Current	@ 40amps	@ 40amps	@ 40amps	@ 40Amps	@ 40Amps
Output Voltage Adjustment Range	23.5-28.5 Vdc adjustable	18-29.5 Vdc (> 24V constant capacity)	24-28.8 Vdc adjustable	24-28 Vdc adjustable	24-28 Vdc
Efficiency	> 93% (67 W)	>92 % (for 230Vac and nominal values)	approx 88% (131 W)	> 93.2%	Тур. 94.6%
Mains Frequency	50 – 60 Hz	45 – 65 Hz	47 – 63 Hz	50 – 60 Hz +/-6%	50 – 60 Hz +/-6%
Reliability (MTBF)	> 500,000 hrs	> 500 000 h in acc. with IEC 61709 (SN 29500)	Not published	> 274,000 hr acc. to SN 29500, IEC 61709 at full load current and 40°C	> 274,000 hr acc. to SN 29500, IEC 61709 at full load current and 40°C
Size (cm3)	2712.1	5050.8	3750.3	1968.5	1968.5
Width along the DIN rail inch (mm)	7.09in (180mm)	7.09 in (180mm)	9.45 in (240mm)	4.92 in (125mm)	4.92 in (125mm)
Installation Clearance Required	25 mm above and below, 25 mm left and right, 15 mm in front. Do not obstruct air flow	50 mm verticaly to ensure sufficient convection; 15 mm laterally required when installed next to other active compoents.	50 mm above and below	40mm on top, 20mm on the bottom, 15mm left and right, Do not obstruct air flow	40mm on top, 20mm on the bottom, 15mm left and right, Do not obstruct air flow
Full Power Ambient	-25°C to +60°C	-25°C to + 60°C	0°C to + 70°C	-25°C to + 70°C	-25°C to + 70°C
Hazardous Location Rating	Class I, Division 2 Class I, Zone 2	No rating	No rating	Class 1, Div 2 Pending	Class I, Division 2
ATEX Rating	Yes	No rating	Yes	Pending	No rating
Weight lb/kg	6.0lb (2.75kg)	7.2lb (3.3kg)	6.33lb (2.9kg)	4.2lb (1.9kg)	4.2lb (1.9kg)
Warranty	5 years	5 years	Not published	3 years	1 year

SolaHD SDN-C Series DIN Rail Power Supplies

Reliable delivery of power in a compact footprint for single- or three-phase input

SOLA+HD



SDN-C SERIES: SINGLE- AND THREE-PHASE POWER SUPPLIES

Maximize uptime and lower energy costs.

The SolaHD SDN-C Series delivers:

Higher efficiency.

Improved visual diagnostics.

Greater reliability.

Compact size.

Meet all your bulk power supply needs with a complete product line:

24 Vdc, DIN rail-mounted power supplies.Single- and three-phase models.New 40 Amp single-phase model.





HIGHER EFFICIENCY



Advanced SolaHD technology eliminates the need for an input inductor and provides more efficient AC/DC conversion.

Lower energy consumption. A more efficient design helps reduce energy costs.

Lower cooling costs. With no input inductor, less energy is wasted in the form of dissipated heat – with no need for additional cooling fans in the panel.

Longer life. Less heat inside the panel enclosure means SDN-C power supplies and other components perform longer and more reliably.

SOLAHD



Multicolored LEDs show the status of input power, output power and alarm conditions at a glance.

	Normal	AC Power Loss	AC Input Loss	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

* Hot and Too Hot indicate the unit is about to shut down due to high temperature or has shut down. Not intended to be used as a thermostat or to monitor temperature.

- Reduce downtime. Troubleshoot power supply problems quickly and confidently.
- **Diagonstic key.** Affix the included sticker to the power supply or panel door to provide a handy diagnostic reference.





GREATER RELIABILITY



Count on an improved design and SolaHD manufacturing quality for dependable performance.

- Reduced parts count. Fewer components provide lower failure rates compared to more complex power supplies.
- Less heat. With no input inductor, the SDN-C Series is less prone to heat buildup that can damage components.
- Smarter component layout. Heat-sensitive components are placed near cool air intakes and away from heat-producing components.

COMPACT SIZE



SDN-C Series power supplies are smaller and more compact, so they are easier to work with and let you do more in the available space.

- More room to work. SDN-C power supplies save space on the DIN rail and in the electrical enclosure, so it's easier to terminate wires and configure components.
- Better heat dissipation. With more space around individual components, air circulates more freely.
- Increased enclosure capacity. Add more components to increase the capacity and efficiency of your operations, while avoiding the need to add a new enclosure.



NEW: 40 AMP POWER SUPPLY WITH SINGLE-PHASE INPUT



For industries located in buildings with single-phase power, there is no need to let power supply capacity limit what you can do.

Our newest single-phase SDN-C model delivers the same 40 Amp capacity as our largest three-phase model.

The power you need today. Run large industrial loads – such as sorting, conveying and packaging equipment, using the single-phase power available in any commercial building.

The power you need tomorrow.

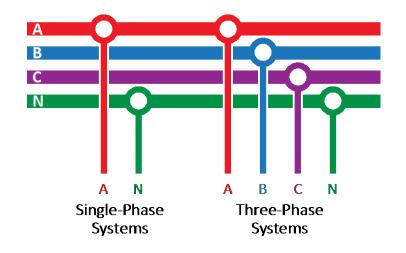
Add new equipment to your operation and get the power you need within your existing power structure – with little or no retrofitting required.

NEW: 40 AMP POWER SUPPLY WITH SINGLE-PHASE INPUT



Single-phase power is by far the most commonly available. Even when industries require three-phase service to run large industrial motors, many branch circuits are likely to be on a single phase.

Our new 40 Amp, single-phase SDN-C transformer is a perfect fit for powering large DC loads on a standard, single-phase AC circuit.



SPECIFICATIONS/CERTIFICATIONS



CULus Listed, Industrial Control Equipment, E61379

• UL508, CSA C22.2 No. 107.1

UL Recognized Component, ITE, E137632

• UL 60950-1/CSA C22.2 No. 60950-1, 2nd Edition

C UL Recognized Component, Haz. Loc., E234790

- UL 60079-15/CSA E60079-15
- Class I, Zone 2, AEx nC IIC, Ex nC IIC

C E Low Voltage Directive

• IEC/ EN60950-1, 2nd Edition

Ex Directive

- EN60079-0, EN60079-15
- II 3 G, Ex nC IIC Gc

Sag Immunity: SEMI F47

SOLAHD



Product offering

Single-Phase			Three-Phase			
Catalog Number	Watts	Amps	Catalog Number	Watts	Amps	
SDN 5-24-100C	120	5	SDN 5-24-480C	120	5	
SDN 10-24-100C	240	10	SDN 10-24-480C	240	10	
SDN 20-24-100C	480	20	SDN 20-24-480CC	480	20	
SDN 40-24-100C	960	40	SDN 40-24-480C	960	40	

For more information and to order your SDN-C power supply, contact your SolaHD representative.

WHY SOLAHD?

Since 1915 in the most demanding environments, SolaHD has supplied total power-quality solutions to keep production lines moving and people, equipment and information safe.

Turn to SolaHD for industrial-grade power conversion and power quality products to ensure reliable operation across your entire production environment.

