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

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



- c **Tu**s UL Recognized Component, ITE, E137632 - UL 60950-1/CSA C22.2 No. 60950-1, 2nd Edition
- (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 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 UL Recognized Component, Haz. Loc., E234790
 - UL 60079-15/CSA E60079-15
 - Class I, Zone 2, AEx nC IIC, Ex nC IIC
- ATEX Directive
 - EN60079-0, EN60079-15
 - 🖾 II 3 G. Ex nC IIC Gc

Related Products

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

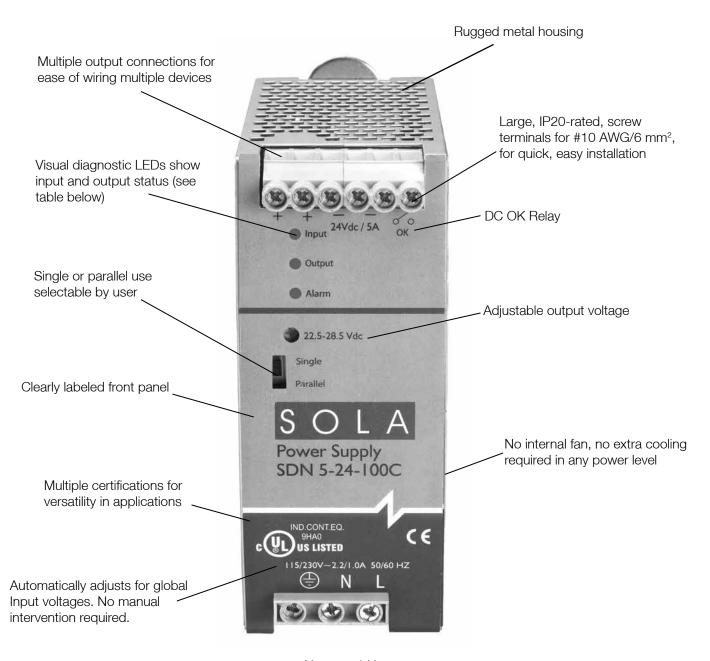
Accessories

Chassis Mount Bracket (SDN-PMBRK2)

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



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



SDN-C Specifications (Single Phase)

	Catalog Number					
Description	SDN 5-24-100C	SDN 10-24-100C				
	Input					
Nominal Voltage	·	5 - 230 Vac				
-AC Range	85	5 - 264 Vac				
-DC Range ¹	90	- 375 Vdc				
-Frequency	43 - 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	71 \ 1	correction to better than 0.92				
Tower ractor correction	Output	Solitotton to Botton than 0.02				
Naminal Valtage 4		.5~28.5 Vdc Adj.)				
Nominal Voltage ⁴ -Tolerance	·	pad, time and temperature related changes)				
Initial Voltage Setting	1	1.5 V ± 1%				
		50 mVpp				
-Ripple ⁵ PARD		Deviation) = 100 mV peak-peak max				
	`	33 Vdc, auto recovery				
Overvoltage Protection Power Back Immunity	> 00.0 But 1 (< 35 V				
Nominal Current	5 A (120 W)	10 A (240 W)				
-Peak Current ⁶		ds minimum while holding voltage > 20 Vdc				
-Short Circuit Current		ar zero volts at short circuit condition				
-Current Limit	PowerBoost™					
Parallel Operation		ot be damaged by parallel operation (regardless of switch position setting).				
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% rated voltage @ full load (T _{amb} =+25°C)					
Line and Load Regulation		< 0.5%				
General						
EMC: -Emissions	EN61000-6-2:2001, EN61000-6-3:2001, Class B EN55011, EN55022 Radiated and Conducted including Annex. A, EN61000-3-					
-Immunity		001, 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 a level 3 output. EN61000-4-5 Isolation class 4, EN61000-4-11, IEC 61000-4-34 voltage dip immunity standard				
Temperature ⁷	forced	torage: -40°C to + 85°C, Operation -25°C to +60°C full power, with linear derating to half power from 60 to 70°C (Convection cooling, n forced air required).				
_		th sideways or front side up mounting orientation.				
MTBF 8		550,000 hrs				
Warranty		imited Warranty				
General Protection/ Safety	Protection Class 1 (IEC536), degree of protection I	uit, continuous overload, continuous open circuit. P20 (IEC60529) Safe low voltage: SELV (acc. IEC60950-1)				
Status Indicators		EDs (Input, Output, Alarm) act rated 200ma/50 Vdc				
	Installation					
Fusing —Input		ernally fused				
-Output	wire/loads if 2x Nominal O/P current rating cannot be toler	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. 5-6 mm²) for solid conductors. Screw torque: 4.4 lb-inch (~ 50 N-cm)				
Connections Case	Input: Screw terminals, connector size range: 16-10 AWG (1.5-6 mm²) for solid conductors. Screw torque: 4.4 lb-inch (~ 50 N-cm). Output: Two terminals per output, connector size range: 16-10 AWG (1.5-6 mm²) for solid conductors. Screw torque: 7 lb-inch (~ 80 N-cm). Fully enclosed metal housing with 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)				
Waight lhe (kg)	1.1 (0.50)	1.7 (0.80)				
Weight Ibs (kg)	1.1 (0.00)	1.7 (0.00)				

- 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.

Power Supplies



SDN-C Specifications (Single Phase)

Description		g Number					
'	SDN 20-24-100C Input	SDN 40-24-100C					
Nominal Voltage	•	230 Vac					
-AC Range							
	85 - 264 Vac 90 - 375 Vdc						
-DC Range ¹							
-Frequency		- 67 Hz					
Nominal Current ²	6 - 3 A	12 - 4 A					
-Inrush current max.	< 40 A	Typ. <60 A					
Efficiency (Losses ³)	> 92% (38 W)	> 93 % (67 W)					
Power Factor Correction	Active power factor con	rrection to better than 0.92					
	Output						
Nominal Voltage ⁴	,	~28.5 Vdc Adj.)					
-Tolerance		d, time and temperature related changes)					
Initial Voltage Setting		V ± 1%					
-Ripple ⁵	<100 mVpp	< 100 mVpp					
PARD	,	eviation) = 100 mV peak-peak max					
Overvoltage Protection		Vdc, auto recovery 35 V					
Power Back Immunity Nominal Current	20 A (480 W)	40 A (960 W)					
-Peak Current ⁶	,	minimum while holding voltage > 20 Vdc					
-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		orBoost™					
	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% rated voltage @ full load (T _{amb} =+25°C)						
Line and Load Regulation							
	General Chickens a const. Ch. D. Eniferent Eniference	ENGLOSS OF ENGLOSS OF OF THE ENGLOSS					
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		ith linear derating to half power from 60 to 70°C (Convection cooling, issible with sideways or front side up mounting orientation.					
MTBF 9	> 450,000 hrs	> 500,000 hours demonstrated					
Warranty	5 Year Lim	nited Warranty					
General Protection/Safety		nuous open circuit. Protection Class 1 (IEC536), degree of protection IP20 age: SELV (acc. IEC60950-1)					
Status Indicators		os (Input, Output, Alarm) ot rated 200ma/50 Vdc					
	Installation						
Fusing —Input		ally fused					
-Output	if 2x Nominal O/P current rating cannot be tolerated. C	or inductive load startup or switching. Fusing may be required for wire/loads continuous current overload allows for reliable fuse tripping.					
Mounting	· · ·	35/7.5 or TS35/15 rail system.					
Connections ¹⁰	Input: Screw terminals, connector size range: 16-10 AWG (1.5-6 mm²) 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 mm²) for solid conductors. Screw Torque: 7 lb-inch (~ 80 N-cm)	Screw Torque: 4.4 lb-in (~ 50 N-cm). (1.5-6 mm²) for solid conductors. Screw Torque: 4.4 lb-inch (~ 50 N-cm). Output, connector size range: 16-10 AWG					
Case	Fully enclosed metal housing with fin-	e ventilation grid to keep out small parts.					
-Free Space	25 - 40 mm above and below, 1	0 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 lbs (kg)	2.6 (1.20)	6.0 (2.75)					

- 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.
- 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.
- All models except the 40amp unit are capable of parallel operation by use of a jumper pin, accessible by the end user. 40 amp unit will have active current sharing signal.
- 8. Contact tech support for operation at -25°C.
- 9. Demonstrated through extended life test.
- SDN 40-24-100C only = Output signaling terminal block features (Shut down, Power Good, Current Monitor, Current Balance, signal GND).



SDN-C Specifications (Three Phase)

		Catal	log Number			
Description	SDN 5-24-480C	SDN 10-24-480C	SDN 20-24-480CC	SDN 40-24-480C		
			Input			
Nominal Voltage			- 480 Vac			
Two – phase input	Yes 1					
-AC Range ²		Υ	- 540 Vac			
-DC Range	450 - 760 Vdc	450 - 760 Vdc	450 - 760 Vdc ¹⁰	N/A		
-Frequency		50	0/60 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.	Typ. «	<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		
			Output			
Turn on time			Typ. 1s			
Voltage Rise Time	ca. 5-	20 ms	<100 ms full resistiv	ve load (T _{amb} =+25°C)		
Power Back Immunity			<35 V			
Overvoltage Protection		>30.5 but <30	3 Vdc auto recovery			
Nominal Voltage ⁵		24 V (23.5	i~28.5 Vdc Adj.)			
Voltage Regulation		< ±2	2 % overall			
Initial Voltage Setting		24.	5 V ± 1%			
-Ripple ⁶		<10	00 mVpp			
PARD	PARD = 100 mV	peak-peak max	PARD = 200 m	nV peak-peak max		
Nominal Current	5 A (120 W)	20 A (480 M) (constant nower not		40 A (960 W)		
-Peak Current ⁷	6A, 2×Nominal Current <2sec	12A, 2×Nominal Current <2se	c 1.5×Nominal Current for 4 sec mir	nimum while holding voltage > 20Vdc		
-Current Limit		Pow	erBoost™			
Derating	typ. 6 W/°C	typ. 12 W/°C	typ. 24 W/°C	typ. 48 W/°C		
Holdup Time		>20 ms		>15 ms		
Voltage Fall Time	<150 ms from 95% to 10% rated voltage @ full load (T _{amb} =+25°C) <50 ms from 95% to 10% rated voltage @ full load (T _{amb} =+25°C)					
Parallel Operation 8	Single or Paralle	el operation selectable via front sw	tch. For redundant	Active Paralleling		
raiallei operation	operation, use of external glode module is preferred					
	-		eneral	to.		
Case	F	ully enclosed metal nousing with ill	ne ventilation grid to keep out small part	is.		
Min. Required	25mm above and below or	25mm above and below or	70mm above and below or	70mm above and below, 15mm in		
Free Space	15mm in front	10mm in front	25mm in front and 25mm left & righ			
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		
Mainht Iba (ka)	(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 lbs (kg) EMC: –Emissions			adiated and Conducted including Annex			
LINIOLIIIISSIOIIS			4-2 Level 4, EN61000-4-3 Level 3, EN6			
-Immunity		•	ut. EN61000-4-5 Isolation class 4, EN6	•		
Temperature			ar derating to half power from 60 to 70°C with sideways or front side up mounting			
Humidity		< 90% RH, nonconden	sing; IEC 60068-2-2, 68-2-3			
Altitude		0 to 3000 mete	ers (0 to 10,000 feet)			
Vibration	2.5(g) RMS, 10-2000 Hz (random); thre	ee axes for 20 minutes each - IEC 6006	8-2-6		
Shock	3(g) peak, three axes, 11mseconds for each axis - IEC 60068-2-27					
Warranty	5 Year Limited Warranty					
MTBF		>500,000 hrs MTBF (Nomi	nal voltage, full load, T _{amb} = 25°C)			
General Protection/Safety	Protected against short -circuit, overload, open circuit. Protection class 1 (IEC536), degree of protection IP20 (IEC 529) Safe low voltage: SELV (acc. EN60950)					
Over-temperature protection		LED Alarm, Output shi	utdown with automatic restart			
Status Indicators	Visual: 3 status LEDs (I	nput, Output, Alarm) Relay: SSR c	or dry relay contact, signal active when \	$V_{\text{out}} = 18.5 \text{Vdc} = +/-5\%$		
		Ins	tallation			
Fusing: -Input			nally fused			
-Output	Not fused		igh currents (PowerBoost) for motor loa	d startup.		
_		Simple snap-on to DIN TS	S35/7.5 or TS35/15 rail system.	·		
Mounting	Unit should handle normal shock and vibration of industrial use and transportation without falling off the rail.					

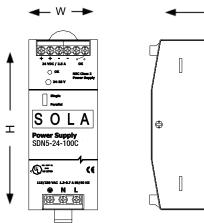
- 1. SDN 20 will operate at 75% load; SDN 40 will operate at 50% load under loss of 1 phase; SDN 5 and SDN 10 will operate with single phase input power at 100% of load. Unit will shut down if thermal threshold is exceeded $\,$ under this condition.
- 2. Unit passed input voltage overstress test at 600 Vac without failure.
- 3. Input current ratings are specified with low input, line conditions, worst case efficiency values and power factor spikes. Input current at nominal input settings will typically be half these values.
- 4. Losses are heat dissipation in watts at full load, nominal line.
- 5. 24-28 Vdc adjustable guaranteed at full load.
- 6. Ripple/noise is stated as typical values when measured with a 20 MHZ, bandwidth

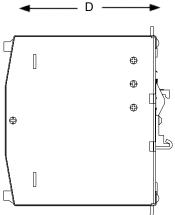
scope and 50 Ohm resistor.

- 7. SDN 20 and 40 unit will go to HICCUP mode. SDN 5 and 10 will maintain min 4 secs to deliver 150% load then drops to almost zero $V_{\rm cut}$. The output voltage will immediately drop to almost zero when load rises above 150%.
- 8. All models except the 40amp unit are capable of parallel operation by use of a jumper pin, accessible by the end user. 40 amp unit will have active current sharing signal
- 9. SDN 40-24-100C only = Output signaling terminal block features (Shut down, Power Good, Current Monitor, Current Balance, signal GND).
- 10. 70% maximum rated load.



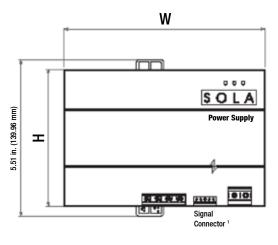
SDN-C Series Dimensions

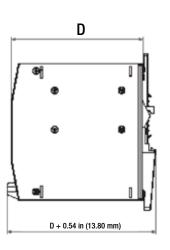




Catalog	Dimensions – inches (mm)				
Number	Н	w	D		
SDN 5-24-100C	4.85 (123.0)	1.97 (50.0)	4.36 (111.0)		
SDN 10-24-100C	4.85 (123.0)	2.36 (60.0)	4.36 (111.0)		
SDN 20-24-100C	4.85 (123.0)	3.42 (87.0)	4.98 (127.0)		
SDN 5-24-480C	4.85 (123.0)	1.97 (50.0)	4.36 (111.0)		
SDN 10-24-480C	4.85 (123.0)	2.36 (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	Н	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)		

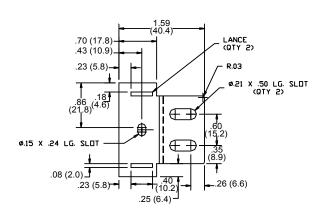
^{1.} SDN 40-24-100C and SDN 40-24-480C output signaling terminal block features: Shut Down, Power Good, Current Monitor, Current Balance, GND, and active current sharing through I_SHARE connectors (See Signals Manual for connection information).

SDN-C Series Mounting

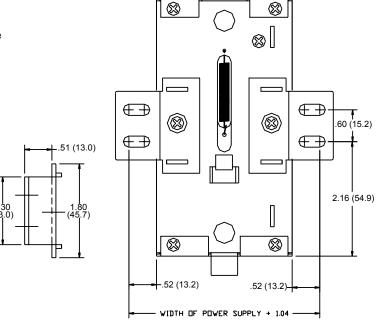
Chassis Mounting

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.



Dimensional Diagram - in (mm)

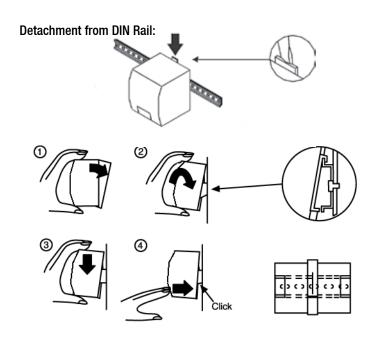


DIN Rail Mounting

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

	3DN 40-24-100C Competitive C			belitive Companson	
	SolaHD	Phoenix	Siemens	PULS	Allen Bradley
Part Number	SDN 40-24-100C	QUINT-PS/ 1AC/24DC/40	6EP1 337-3BA00	QS40.241	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, 15 mm left and right, Do not obstruct air flow	40mm on top, 20mm on the bottom, 15 mm 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
www.colobd.com		colabel tachnicalcon	icas Bamarsan cam		1 000 277 //20



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.



IMPROVED VISUAL DIAGNOSTICS



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.

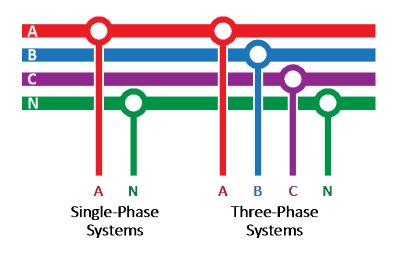
Add new equipment to your operation and get the power you need within your existing power structure – with little or no retrofitting required.

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



Listed, Industrial Control Equipment, E61379

• UL508, CSA C22.2 No. 107.1

CALus UL Recognized Component, ITE, E137632

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

LEGISTIC OF CONTROL O

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

C € 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

CATALOG INFORMATION



Product offering

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

Three-Phase							
Catalog Number	Watts	Amps					
SDN 5-24-480C	120	5					
SDN 10-24-480C	240	10					
SDN 20-24-480CC	480	20					
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.





OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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