SDN-P DIN Rail Series

The SDN DIN Rail power supplies 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 directives, 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 preferred choice of users everywhere.

Features

- Power Factor Correction (per EN61000-3-2)
- Auto Select 115/230 Vac, 50/60 Hz Input
- Single Phase models meet SEMI F47 Sag Immunity
- Class 1, Zone 2 Hazardous Locations
 - ATEX approval on 2.5 through 10A, 24 Vdc Single Phase Models
 - ATEX approval pending on 12 Vdc and 48 Vdc single phase models
- ٠ Improved metal mounting clip
- DC OK Signal
- Adjustable Voltage
- SDN10-24-100P New Compact width (3.26")
- Parallel Capability standard on all units
- Industrial grade design
 - -10°C to 60°C operation without derating. Indefinite short circuit, overvoltage and overtemperature protection.
 - Powers high inrush loads without shutdown or foldback
 - Rugged metal case and DIN connector
- SDN2.5-24-100P and SDN4-24-100LP meet NFC Class 2
- Narrow width on rail for space critical applications
- User-friendly front panel
 - Large, rugged, accessible, multiple connection screw terminations
 - Easy installation
- Broad range of product to fit almost any application - 2.5 A through 40 A, 24 Vdc
- Single and three phase inputs available
- 12 Vdc and 48 Vdc single phase models available
- ٠ Highly efficient >90% switching technology
- High MTBF and reliability
- RoHS compliant

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60950 E137632 CUL/CSA-C22.2 No. 234-M90

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Related Products

- SDP™ Series
- SFL Series
- SCP Series
- SCL Series
- SDU UPS

Applications

- Industrial/Machine Control
- Process Control
- Conveying Equipment
- Material Handling
- Vending Machines
- Packaging Equipment •
- DeviceNet™
- Amusement Park Equipment
- Semiconductor Fabrication Equipment

Accessories

Chassis Mount Bracket (SDN-PMBRK2)

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





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SDN-P Specifications (Single Phase), 24 Vdc Output

CE () II 3G DEMK0 06 ATEX 05 21715U

Description	Catalog Number					
Description	SDN 2.5-24-100P	SDN 4-24-100LP	SDN 5-24-100P	SDN 10-24-100P	SDN 20-24-100P	
			Input			
Nominal Voltage	115/230 Vac auto select					
-AC Range			85-132/176-264 Vac			
-DC Range ¹	90-375 Vdc		210-375 Vdc		N/A	
-Frequency			47 - 63 Hz			
Nominal Current ²	1.3 A. / 0.7 A	2.1 A / 1.0 A	2.2 A / 1.0 A	5 A / 2 A typ.	9 A/ 3.9 A	
–Inrush current max.	typ. < 25 A					
Efficiency (Losses ³)	> 87.5% typ. (8.6 W)				> 90% typ. (48 W)	
Power Factor Correction			Units Fulfill EN61000-3-2	2		
			Output			
Nominal Voltage	24 Vdc 24 Vdc 24 Vdc (22.5 - 28.5 Vdc adj.) (22.5 - 25.5 Vdc adj.) (22.5 - 28.5 Vdc adj.)					
-Tolerance		$< \pm 2\%$ overall (combination)	ation Line, load, time and ter	mperature related changes)		
–Ripple⁴			< 50 mVpp			
Overvoltage Protection		> 3	0 Vdc, but < 33 Vdc, auto re	ecovery		
Nominal Current	2.5 A (60 W)	3.8 A (92 W)	5 A (120 W)	10 A (240 W)	20 A (480 W)	
–Current Limit	Fold Forward	Current rises, voltage dro	ps to maintain constant pov	ver during overload up to max	peak current)	
Holdup Time⁵	> 50 ms		>	100 ms		
Parallel Operation	Single or Parallel use is sel	ectable via Front Panel Sv	vitch (SDN 2.5, 4 should no	t be used in parallel as Class 2	rating would be violated.	
			General			
EMC: –Emissions	EN61000-6-3, -4; Class B EN55011, EN55022 Radiated and Conducted including Annex A.					
–Immunity	EN61000-6-1, -2; 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;					
Approvals	ENGlation Class 4, ENG 1000-4-11, ENG0950; UL508 Listed, cULus; UL60950, cRUus, CE (LVD 73/23 & 93/68/EEC). EN61000-3-2, IEC60079-15 (Class 1, Zone 2, Hazardous Location, Groups A, B, C, D w/ T3A temp class up to 60°C Ambient.) SEMI F47 Sag Immunity. SDN 2.5 & SDN 4 - UL60950 testing to include approval as Class 2 power supply in accordance with UL1310.					
Temperature	Storage: -25°C+85°C Operat	Storage: -25°C+85°C Operation10°-60°C full power with operation to 70°C possible with a linear derating to half power from 60°C to 70°C (Cor vection cooling, no forced air required). Operation up to 50% load permissible with sideways or front side up mounting orientation.				
Humidity		equired). Operation up to 50				
				vays or front side up mounting o		
•	> 820,000 hours	The relative humidit	% load permissible with sidev	vays or front side up mounting o		
	> 820,000 hours	The relative humidit)% load permissible with sidev ty is < 90% RH, noncondensir	vays or front side up mounting of ng; IEC 68-2-2, 68-2-3.	rientation.	
MTBF:		The relative humidii > 640, Bellcore Issue 6 Me	0% load permissible with sidev ty is < 90% RH, noncondensir 000 hours thod 1 Case 3 @ 40°C 5 years	vays or front side up mounting on ng; IEC 68-2-2, 68-2-3. > 600,000 hours	rientation.	
MTBF: – Standard	Protected against continuous s degree of protection IP20 (IEC	The relative humidi > 640, Bellcore Issue 6 Me short-circuit, overload, open 529) Safe Iow voltage: SEL	0% load permissible with sidev ty is < 90% RH, noncondensir 000 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950)	vays or front side up mounting on ng; IEC 68-2-2, 68-2-3. > 600,000 hours	rientation.	
MTBF: - Standard Warranty General Protection/	Protected against continuous s	The relative humidi > 640, Bellcore Issue 6 Me short-circuit, overload, open 529) Safe Iow voltage: SEL	0% load permissible with sidev ty is < 90% RH, noncondensir 000 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950)	vays or front side up mounting on ng; IEC 68-2-2, 68-2-3. > 600,000 hours	rientation. > 510,000 hours	
MTBF: – Standard Warranty General Protection/ Safety Status Indicators	Protected against continuous s degree of protection IP20 (IEC	The relative humidii > 640,(Bellcore Issue 6 Me hort-circuit, overload, open 529) Safe Iow voltage: SEL N.O. Solid State Contact ra	0% load permissible with sidev ty is < 90% RH, noncondensir 000 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950)	vays or front side up mounting on ng; IEC 68-2-2, 68-2-3. > 600,000 hours	rientation.	
MTBF: – Standard Warranty General Protection/ Safety	Protected against continuous s degree of protection IP20 (IEC	The relative humidit > 640, Bellcore Issue 6 Me short-circuit, overload, open 529) Safe Iow voltage: SEL N.O. Solid State Contact ra	0% load permissible with sidew ty is < 90% RH, noncondensir 000 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950) ted 200 mA / 60 Vdc) stallation	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536),	rientation.	
MTBF: - Standard Warranty General Protection/ Safety Status Indicators Fusing	Protected against continuous s degree of protection IP20 (IEC Green LED and DC OK signal (Internally fused. External 10 / Outputs are capable of provi wire/loads if 2x Nominal O/P	The relative humidit > 640,(Bellcore Issue 6 Me short-circuit, overload, open 529) Safe Iow voltage: SEL N.O. Solid State Contact ra In A slow acting fusing for th ding high currents for sho current rating cannot be t	0% load permissible with sidew ty is < 90% RH, noncondensin 200 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950) ted 200 mA / 60 Vdc) stallation e input is recommended to rt periods of time for induction colerated. Continuous currer	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536), protect input wiring. ve load startup or switching. Fu it overload allows for reliable fu	rientation. > 510,000 hours MIL STD 217F @ 30°C using may be required for use tripping.	
MTBF: – Standard Warranty General Protection/ Safety Status Indicators Fusing –Input	Protected against continuous s degree of protection IP20 (IEC Green LED and DC OK signal (Internally fused. External 10 / Outputs are capable of provi wire/loads if 2x Nominal O/P	The relative humidit > 640,(Bellcore Issue 6 Me short-circuit, overload, open 529) Safe Iow voltage: SEL N.O. Solid State Contact ra In A slow acting fusing for th ding high currents for sho current rating cannot be t	0% load permissible with sidew ty is < 90% RH, noncondensin 200 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950) ted 200 mA / 60 Vdc) stallation e input is recommended to rt periods of time for induction colerated. Continuous currer	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536), protect input wiring. ve load startup or switching. Fit	rientation. > 510,000 hours MIL STD 217F @ 30°C using may be required for use tripping.	
MTBF: - Standard Warranty General Protection/ Safety Status Indicators Fusing -Input -Output Mounting	Protected against continuous s degree of protection IP20 (IEC Green LED and DC OK signal (Internally fused. External 10 / Outputs are capable of provi wire/loads if 2x Nominal O/P Simple snap-on system for D Input: IP20-rated screw termi	The relative humidii > 640,0 Bellcore Issue 6 Me short-circuit, overload, open 529) Safe low voltage: SEL N.O. Solid State Contact ra In A slow acting fusing for th ding high currents for sho current rating cannot be f JIN Rail TS35/7.5 or TS35 nals, connector size range	0% load permissible with sidew ty is < 90% RH, noncondensir 000 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950) ted 200 mA / 60 Vdc) stallation e input is recommended to rt periods of time for inducti- iolerated. Continuous currer /15 or chassis-mounted (op e: 16-10 AWG (1.5-6 mm ²)	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536), protect input wiring. ve load startup or switching. Fu it overload allows for reliable fu	vientation. > 510,000 hours MIL STD 217F @ 30°C MIL STD 217F @ 30°C set tripping. -PMBRK2 required). VG (0.5-4 mm²) for	
MTBF: - Standard Warranty General Protection/ Safety Status Indicators Fusing -Input -Output	Protected against continuous s degree of protection IP20 (IEC Green LED and DC OK signal (Internally fused. External 10 / Outputs are capable of provi wire/loads if 2x Nominal O/P Simple snap-on system for D Input: IP20-rated screw termi	The relative humidit > 640,0 Bellcore Issue 6 Me short-circuit, overload, open 529) Safe Iow voltage: SEL N.O. Solid State Contact ra In A slow acting fusing for th ding high currents for sho current rating cannot be 1 IN Rail TS35/7.5 or TS35 nals, connector size rang- wo connectors per output	0% load permissible with sidew ty is < 90% RH, noncondensin 200 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950) ted 200 mA / 60 Vdc) stallation e input is recommended to rt periods of time for induction colerated. Continuous currer /15 or chassis-mounted (op e: 16-10 AWG (1.5-6 mm ²) t, connector size range: 16-	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536), protect input wiring. ve load startup or switching. Fu to overload allows for reliable fu tional screw mounting set SDN for solid conductors. 16-12 AW	vientation. > 510,000 hours MIL STD 217F @ 30°C MIL STD 217F @ 30°C set tripping. -PMBRK2 required). VG (0.5-4 mm²) for	
MTBF: - Standard Warranty General Protection/ Safety Status Indicators Fusing -Input -Output Mounting Connections	Protected against continuous s degree of protection IP20 (IEC Green LED and DC OK signal (Internally fused. External 10 / Outputs are capable of provi wire/loads if 2x Nominal O/P Simple snap-on system for D Input: IP20-rated screw termi flexible conductors. Output: T	The relative humidit > 640,(Bellcore Issue 6 Me hort-circuit, overload, open 529) Safe low voltage: SEL N.O. Solid State Contact ra In A slow acting fusing for th ding high currents for sho current rating cannot be t IN Rail TS35/7.5 or TS35 nals, connector size rang, wo connectors per output with fine ventilation grid t and below,	0% load permissible with sidew ty is < 90% RH, noncondensin 200 hours thod 1 Case 3 @ 40°C 5 years -circuit. Protection Class 1 (IE / (acc. EN60950) ted 200 mA / 60 Vdc) stallation e input is recommended to rt periods of time for induction colerated. Continuous currer /15 or chassis-mounted (op e: 16-10 AWG (1.5-6 mm ²) t, connector size range: 16-	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536), protect input wiring. ve load startup or switching. Fu to overload allows for reliable fu tional screw mounting set SDN for solid conductors. 16-12 AW	 s10,000 hours S10,000 hours MIL STD 217F @ 30°C MIL STD 217F @ 30°C set ripping. N-PMBRK2 required for ise tripping. VG (0.5-4 mm²) for I conductors. v, 25 mm left and right, 	
MTBF: - Standard Warranty General Protection/ Safety Status Indicators Fusing -Input -Output Mounting Connections Case	Protected against continuous s degree of protection IP20 (IEC Green LED and DC OK signal (Internally fused. External 10 / Outputs are capable of provi- wire/loads if 2x Nominal O/P Simple snap-on system for D Input: IP20-rated screw termi flexible conductors. Output: T Fully enclosed metal housing 25 mm above a	The relative humidit > 640,(Bellcore Issue 6 Me hort-circuit, overload, open 529) Safe low voltage: SEL N.O. Solid State Contact ra In A slow acting fusing for th ding high currents for sho current rating cannot be 1 IN Rail TS35/7.5 or TS35 nals, connector size rang wo connectors per output with fine ventilation grid t and below, , 10 mm in front 4.88 x 2	% load permissible with sidew ty is < 90% RH, noncondensir	vays or front side up mounting or ng; IEC 68-2-2, 68-2-3. > 600,000 hours C536), c536), ve load startup or switching. Fu to verload allows for reliable fu tional screw mounting set SDN for solid conductors. 16-12 AV 10 AWG (1.5 - 6 mm²) for solid 70 mm above and below	 initial state of the state of t	

1. Not UL listed for DC input.

4. Ripple/noise is stated as typical values when measured with a 20 MHz,

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

bandwidth scope and 50 Ohm resistor. 5. Full load, 100 Vac Input @ $T_{amb} = +25^{\circ}C$

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

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SDN-P Specifications (Single Phase), 12 Vdc and 48 Vdc Output



CE () II 3G DEMK0 06 ATEX 05 21715U

Description	Catalog Number				
	SDN 9-12-100P	SDN 5-48-100P	SDN 16-12-100P		
		Input			
Nominal Voltage		115/230 Vac auto select			
–AC Range	85-132/176-264 Vac				
-DC Range ¹		210-375 Vdc			
-Frequency		47-63 Hz, 400 Hz			
Nominal Current ²	2.0 A / 1.5 A	4 A / 2.3 A	3.3 A / 1.7 A		
-Inrush current max.	Тур. < 20 А	typ.	< 40 A		
Efficiency ² (Losses ³)	> 84% typ. (17.28 W)	> 88% typ. (28.8 W)	> 84% typ. (30.72 W)		
Power Factor Correction		Units fulfill EN61000-3-2	1		
	1	Output			
Nominal Voltage	12 V (11.8-15.2 Vdc Adj.)	48 V (35.8 - 52 Vdc Adj.)	12 V (11.6-14.0 Vdc Adj.)		
Folerance		I (combination Line, load, time and temperature i			
-Line Regulation		< 0.5%			
-Load Regulation		< 0.5%			
		< 1%			
–Time & Temp. Drift		< 50 mVpp			
Ripple ³	< 16 Vdc with auto-recovery	< 60 Vdc with auto-recovery	< 16 Vdc with auto-recovery		
Overvoltage Protection	,		· · · · ·		
Nominal Current	9 A (108 W)	5 A (240 W)	16 A (192 W)		
–Current Limit ⁴		It rises, voltage drops to maintain constant powe			
Holdup Time⁵		ull load, 100 Vac Input @ T _{amb} =+25°C) to 95% ou			
Parallel Operation		Supplies will not be damaged with parallel operat			
Power Back Immunity	16 Vdc	60 Vdc	16 Vdc		
	1	General			
EMC: –Emissions	EN61000-6-3, EN61204-3, EN55022 Class B, EN	161000-3-2 EN61000-3-3			
	EN61000-6-2, EN61204-3, EN55024, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6,				
–Immunity	IEC61000-4-8, IEC61000-4-11		· · ·		
Anneovala	UL508 Listed, cULus; UL 60950-1, cURus; CE (LVD 73/23 & 93/68/EEC), (EMC 89/336 & 93/68/EEC). EN61000-3-2; UL 60079-15 pending (Class 1, Zone 2 hazardous location, Groups IIA, IIB, IIC w/ T3 temp. class up to 60°C Ambient.);				
Approvals	EN60079-15 (ATEX); SEMI F47 Sag Immunity, Rol		up to ou o Ambient.),		
Temperature	Storage: -25 to +85°C, Operation -10 to +60°C fu				
-	(Convection cooling, no forced air required). Opera	4100 up to 50% load permissible with sideways of < 90% RH, non-condensing; IEC 68-2-2, 68-2-			
Humidity MTBF:		>500,000 hrs	5		
– Standard		Telcordia/Bellcore, Issue Case 3 @25°C			
Warranty		5 years			
-	Protected against continuous short -circuit, contin		on Class 1 (IEC536),		
General Protection/Safety	Degree of Protection IP20 (IEC 529) Safe low voltage: SELV (acc. EN60950)				
Status Indicators (Visual)	Green LED on when $V_{out} > 75\%$ (with ± 5% tolerance) of nominal output voltage				
Status Indicators (Relay)	Normally Open solid state relay - signal active whe		to 200 mA, 60 Vdc)		
Free land		Installation			
Fusing —Input	Internally fused				
· ·	Outputs are capable of providing high currents for	short periods of time for inductive load startup of	or switching. Fusing may be required if		
–Output	Nominal O/P current rating cannot be tolerated. Continuous current overload allows for reliable fuse tripping.				
Mounting	Simple snap-on to DIN TS35/7.5 or TS35/15 rail s and transportation without falling off the rail.	system. Unit should handle normal shock and vib	pration of industrial use		
	Input: Screw terminals, connector size range: 16-1	10 AWG (1.5-6mm ²) for solid conductors.			
Connections	Output: Two terminals per output, connector size range: 16-10 AWG (1.5-6mm ²) for solid conductors.				
Case	Fully enclosed metal housing with fine ventilation grid to keep out small parts.				
-Free Space	70 mr	n above and below, 25 mm left and right, 15mm	n in front		
H x W x D (inches/mm)	4.88 × 2.56 × 4.55 (124 x 65 × 116)	4.88 × 3.26 × 4.	55 (124 × 83 × 116)		
Weight (Ibs/kg)	2.4 (1.05)	3.3	3 (1.48)		
values. Input current at n 2. Losses are heat dissipation	specified with low input, line conditions and worst case ominal input settings will be typically half these values. on in watts at full load, nominal line. typical values when measured with a 20 MHz bandwid ter. Visit our w	shown shall be maintained indefin according to amount of overload t	of during overload or short circuit. Maximum current itely without damage to the supply. Voltage shall d to protect supply from damage.		

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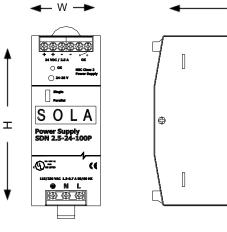
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SDN-P Specifications (Three Phase)

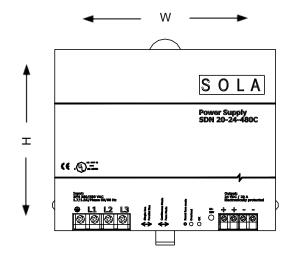
Description			Catalog Number		1	
	SDN 5-24-480	SDN 10-24-480	SDN 20-24-480C	SDN 30-24-480	SDN 40-24-480	
	I		Input			
Nominal Voltage	1Ø or 3Ø 38	0-480 Vac	1Ø or 3Ø 380 - 480 Vac¹	3Ø 380 - 480 Vac		
-AC Range	340 - 576 Vac					
-DC Range ²			450 - 820 Vdc			
-Frequency			47 - 63 Hz			
Iominal Current ³	0.5 A	0.8 A	1.5 A	2.0 A	3.0 A	
-Inrush current max.		typ. < 18 A		typ. <	30 A	
fficiency (Losses4)	> 90% typ. (12 W)	> 90% ty	o. (48 W)	> 90% typ. (72 W)	> 90% typ. (96 W)	
Power Factor Correction	Units Fulfill EN61000-3-2					
		C	Dutput			
Nominal Voltage			24 Vdc (22.5 - 28.5 Vdc adj.			
-Tolerance		< ±2% overall (combinat	ion Line, load, time and temp	perature related changes)		
-Ripple ⁵		X	< 50 mVpp			
)vervoltage						
Protection		> 30	Vdc, but < 33 Vdc, auto rec	overy		
Nominal Current	5 A (120 W)	10 A (240 W)	20 A (480 W)	30 A (720 W)	40 A (960 W)	
-Peak Current	6A, 2x Nominal Current < 2 sec.	12A, 2x Nominal Current < 2 sec.	25A, 2x Nominal Current < 2 sec.	35A, 2x Nominal Current < 2 sec.	45A, 2x Nominal Currer < 2 sec	
-Current Limit	Fold Forw	ard (Current rises, voltage drop	s to maintain constant powe	during overload up to max peak	< current)	
loldup Time ⁶	> 40	ms	> 28 ms	> 20	ms	
Parallel Operation	5A through 30A units may be	passively paralleled by selecting	g the "P" position of the swite	h on the unit. The SDN 40 conta	ains active current balancin	
•		G	eneral			
MC:						
-Emissions	EN61000-6-3, -4; Class B EN	55011, EN55022 Radiated and	Conducted including Annex	Α.		
–Immunity	EN61000-6-1, -2; 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;					
Approvals				EEC). EN61000-3-2, UL60079-1	5	
Approvais	Class 1, Zone 2 Hazardous Location, Groups IIA, IIB, IIC w/T3 temp class up to 60°C Ambient. Storage: -25°C+85°C Operation10°C -60°C full power with operation to 70°C possible with a linear derating to half power from 60°C to 70°C				war from 60°C to 70°C	
Temperature		air required). Operation up to 5		leways or front side up mounting		
MTBF:	> 1,110,000 hours	> 940,000 hours	> 550,000 hours	> 620,000 hours	> 490,000 hours	
- Standard		· · · ·	MIL STD 217F @ 30°C		, 	
Warranty			5 years			
General Protection/ Safety	Protected against continuous short-circuit, overload, open-circuit. Protection Class 1 (IEC536), degree of protection IP20 (IEC 60529) Safe low voltage SELV (acc. EN60950)				EC 60529) Safe low voltage	
Status Indicators	Green LED on when $V_{out} = 18V$	or greater.				
		Ins	tallation			
Fusing -Input	Internally 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					
Mounting	if 2x Nominal O/P current rating cannot be tolerated. Continuous current overload allows for reliable fuse tripping. Simple snap-on system for DIN Rail TS35/7.5 or TS35/15 or chassis-mounted (optional screw mounting set SDN-PMBRK2 required).			2 required).		
Connections ⁷	Input: IP20-rated screw termin	als, connector size range: 16-1	0 AWG (1.5-6 mm²) for solid	conductors. 16-12 AWG (0.5-4 r		
Case	· · ·	tput, connector size range: 16- <i>v</i> ith fine ventilation grid to keep	1 /	a conductors.		
-Free Space	25 mm above and belov		70 mm above	and below, 25 mm left and right ,	. 15 mm in front	
	15 mm in front 7 6 min dates and below, 26 min lot and hight, 16 min min min and hight, 16 min min min and hight, 16 min min min min and hight, 16 min min min			, 		
I x W x D (inches/mm)	(124 x 73 x 116)	(124 x 89 x 116)	(124 x 150 x 116)	(124 x 247 x 116)	(124 x 282 x 116)	
Veight (Ibs/kg)	1.7 (.77)	2.16 (.98)	3.97 (1.8)	4 (1.81)	6.6 (2.99)	
to 75% (15 Amps @ . Not UL listed for DC	input. are conservatively specified with factor.	low input, worst case Visit our website a	 Ripple/noise is stated scope and 50 Ohm r Full load, 100 Vac Inj For the SDN 40-24-4 (1.5016 mm²) solid c at www.solahd.com or 	but @ $T_{amb} = +25^{\circ}C$ 180, output: one (+) two (-) conne onductor.	ed with a 20 MHz, bandwid	
	cont	act Technical Services at	(800) 377-4384 with a	ny questions.	1	

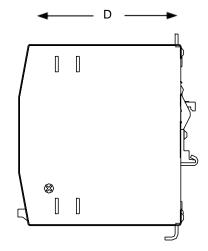
SDN-P Series Dimensions



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Catalog	Dimensions – inches (mm)					
Number	Н	W	D			
12 Vdc						
SDN 9-12-100P	4.88 (124)	2.56 (65)	4.55 (116)			
SDN 16-12-100P	4.88 (124)	3.26 (83)	4.55 (116)			
24 Vdc						
SDN 2.5-24-100P	4.88 (124)	1.97 (50)	4.55 (116)			
SDN 4-24-100LP	4.88 (124)	2.56 (65)	4.55 (116)			
SDN 5-24-100P	4.88 (124)	2.56 (65)	4.55 (116)			
SDN 5-24-480	4.88 (124)	2.91 (73)	4.55 (116)			
SDN 10-24-100P	4.88 (124)	3.26 (83)	4.55 (116)			
SDN 20-24-100P	4.88 (124)	6.88 (175)	4.55 (116)			
48 Vdc						
SDN 5-48-100P	4.88 (124)	3.26 (83)	4.55 (116)			





Catalog	Dimensions – inches (mm)			
Number	Н	W	D	
SDN 10-24-480	4.88 (124)	5.90 (150)	4.55 (116)	
SDN 30-24-480	4.88 (124)	9.72 (247)	4.55 (116)	
SDN 40-24-480	4.88 (124)	11.10 (282)	4.55 (116)	

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

SOLAHD

SDN-P Series Mounting

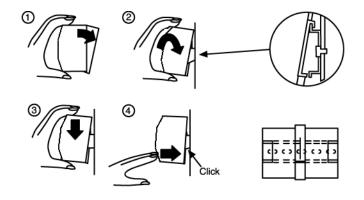
DIN Rail Mounting

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.

Detachment from DIN Rail:

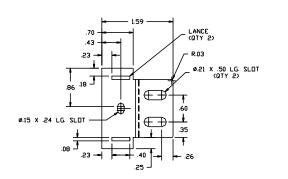


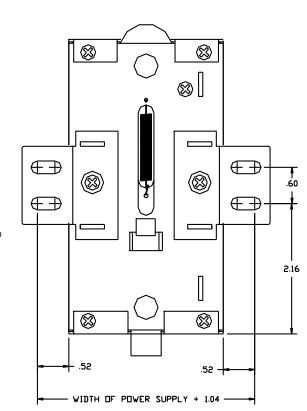
Dimensions

Chassis Mounting

Instead of snapping a Sola 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.





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