



SDN-C SINGLE AND THREE PHASE POWER SUPPLIES – PRODUCT GUIDE

COMPACT PERFORMANCE DIN RAIL SERIES

Our next-generation SDN-C power supplies offer high efficiency in a compact size, providing up to 960 Watts of output power in both single- and three-phase models. Featuring diagnostic LEDs, sag immunity, power factor correction and universal voltage, these are the highest performing DIN rail-mounted power supplies available for industrial use.

APPLICATIONS

- Industrial/machine control
- Process control
- Conveying equipment
- Material handling
- Vending machines
- Packaging equipment
- Amusement park equipment
- Semiconductor fabrication equipment

FEATURES

- Compact packaging saves space on the DIN rail
- Visual diagnostic LEDs provide input and output status at a glance
- Higher efficiency saves energy and lowers amount of heat generated inside the panel
- PowerBoost™ overload capability starts high inrush loads without foldback or shutdown
- Accepts Universal voltage 85-264 Vac, 50/60 Hz input
- Single phase models meet SEMI F47 sag immunity
- Active power factor correction
- Class I Zone 2 hazardous locations rating
- ATEX approved on select models
- User adjustable output voltage accessible via front face
- Parallel capability standard
- Industrial grade design
- -25° C to 60° C operation without derating
- High MTBF means high reliability and long life
- RoHS compliant
- Highly efficient switching technology
- Five-year warranty

CERTIFICATIONS AND COMPLIANCES

All Models:

-  Listed, Ind. Control Equipment, E61379
- UL 508, CSA C22.2 No. 107.1
-  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 20-24-480CC, SDN 40-24-480C:

-  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 20-24-100C, SDN 40-24-100C, SDN 5-24-480C, SDN 10-24-480C:

-  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 nA nC IIC Gc
- **IECEx** Certified
- IEC 60079-0, IEC 60079-15
- Ex nA nC IIC Gc





A POWERBOOST™

- Powers high inrush loads without shutdown or foldback
- Allows designers to save money by sizing for peak loads

B INDUSTRIAL GRADE DESIGN

- Metal enclosure with small vents to keep small parts from falling in
- Patented durable mounting clip (designed to withstand 40G of shock without falling off rail)
- Wide temperature performance: guaranteed reliability at full load over a wide temperature range of -10° C to +70° C (+14° F to +158° F) with no derating until after +60° C (+140° F)

C DC OK SIGNAL

- Allows remote notification of DC power loss to the controller

D ADJUSTABLE VOLTAGE

- Flexibility to set DC voltage perfectly for application requirements

E SINGLE OR PARALLEL USE SELECTABLE

- One model to stock for single or multiple applications
- Easily scalable for higher power applications
- Current sharing for maximum reliability
- External modules available for full redundancy

F 3 LED DIAGNOSTICS

- Shows status of input power, output power and alarm condition
- Valuable troubleshooting aid to reduce system downtime

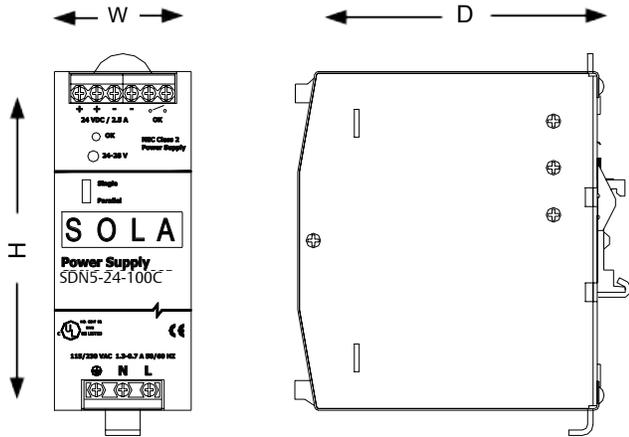
G WIDE RANGE INPUT WITH SAG IMMUNITY

- No need to worry about different wiring or switch positions when applying different input voltages
- All single phase models can operate from 100, 110, 115, 120, 127, 200, 208, 220, 230 or 240 Vac inputs with no jumper or switch changes
- Easily handles sags down to half the line voltage with no disruption in output power, increasing equipment reliability and availability
- Models comply with SEMI F47 standards for the semiconductor machine builder industry at all input line and output load conditions

H COMPLIANCES

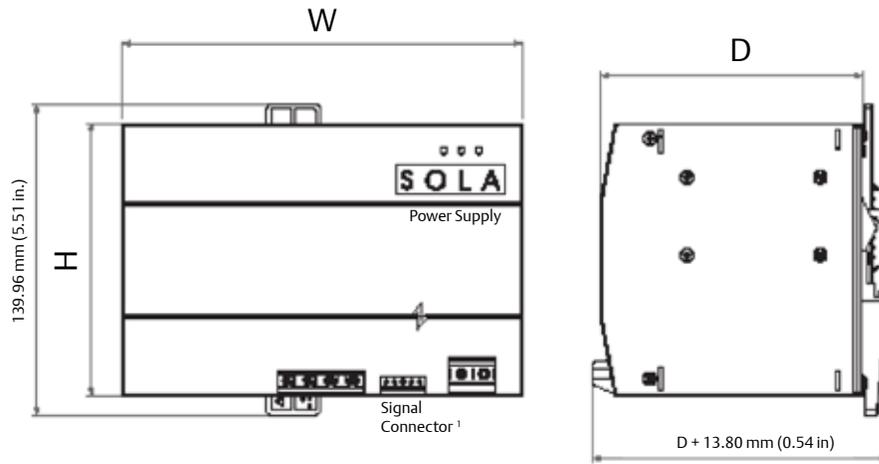
- Listed, Industrial Control Equipment, E61379
- ITE, E137632
- Haz. Loc., E234790
 - Class 1, Div 2/Zone 2
 - Non-Incendary
 - Temperature class T3 or T4, groups IIC
- ATEX Approved on select models for Low Voltage and EMC Directives
 - Power factor correction (low frequency emissions)

SDN-C SERIES DIMENSIONS



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

SDN 40-24-100C AND SDN 40-24-480C DIMENSIONS



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

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 L_SHARE connectors (See Signals Manual for connection information).

SDN-C SPECIFICATIONS (SINGLE PHASE)

Description	Catalog Number	
	SDN 5-24-100C	SDN 10-24-100C
	INPUT	
Nominal Voltage	115 - 230 Vac	
-AC Range	85 - 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	Active power factor correction to better than 0.92	
	OUTPUT	
Nominal Voltage ⁴	24 V (23.5~28.5 Vdc Adj.)	
-Tolerance	< ±2% overall (combination Line, load, time and temperature related changes)	
Initial Voltage Setting	24.5 V ± 1%	
-Ripple ⁵	< 50 mVpp	
PARD	PARD (Periodic and Random Deviation) = 100 mV peak-peak max	
Overvoltage Protection	> 30.5 but < 33 Vdc, auto recovery	
Power Back Immunity	< 35 V	
Nominal Current	5 A (120 W)	10 A (240 W)
-Peak Current ⁶	1.5 x Nominal Current for 4 seconds minimum while holding voltage > 20 Vdc	
-Short Circuit Current	1.5 x Nominal Current at near zero volts at short circuit condition	
-Current Limit	PowerBoost™	
Parallel Operation	Switch selectable single unit or parallel unit operation. Units will not be damaged by parallel operation (regardless of switch position setting).	
Holdup Time	>20 ms (Full load, 100 Vac Input @ T amb = +25 °C (+77 °F) to 95% output voltage	
Voltage Fall Time	<150 mS from 95% to 10% rated voltage @ full load (T amb = +25 °C (+77 °F)	
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, EN61000-3-2	
-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	
Temperature ⁷	Storage: -40 °C to + 85 °C (-40 °F to +185 °F), Operation -25 °C to +60 °C (-13 °F +140 °F) to full power, with linear derating to half power from +60 °C to +70 °C (+140 °F to +158 °F)(Convection cooling, no forced air required). Operation up to 50% load permissible with sideways or front side up mounting orientation.	
MTBF ⁸	> 550,000 hrs	
Warranty	5 Year Limited Warranty	
General Protection/ Safety	Protected against continuous short -circuit, continuous overload, continuous open circuit. Protection Class 1 (IEC536), degree of protection IP20 (IEC60529) Safe low voltage: SELV (acc. IEC60950-1)	
Status Indicators	Visual: 3 status LEDs (Input, Output, Alarm) Relay: N.O. contact rated 200ma/50 Vdc	
	INSTALLATION	
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 if 2x 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 system.	
Connections	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: 16-10 AWG (1.5-6 mm ²) for solid conductors. Screw torque: 7 lb-inch (~ 80 N-cm).	
Case	Fully enclosed metal housing with fine ventilation grid to keep out small parts.	
-Free Space	25 mm above and below, 10 mm left and right, 15 mm in front	
H x W x D inches mm (in)	123.0 x 50.0 x 110.0 (4.85 x 1.97 x 4.36)	123.0 x 60.0 x 110.0 (4.85 x 2.36 x 4.36)
Weight kg (lbs)	0.50 (1.1)	0.80 (1.7)

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	
	SDN 20-24-100C	SDN 40-24-100C
	INPUT	
Nominal Voltage	115 - 230 Vac	
-AC Range	85 - 264 Vac	
-DC Range ¹	90 - 375 Vdc	
-Frequency	43 - 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 correction to better than 0.92	
	OUTPUT	
Nominal Voltage ⁴	24 V (23.5~28.5 Vdc Adj.)	
-Tolerance	< ±2 % overall (combination Line, load, time and temperature related changes)	
Initial Voltage Setting	24.5 V ± 1%	
-Ripple ⁵	<100 mVpp	< 100 mVpp
PARAD	PARAD (Periodic and Random Deviation) = 100 mV peak-peak max	
Overvoltage Protection	> 30.5 but < 33 Vdc, auto recovery	
Power Back Immunity	< 35 V	
Nominal Current	20 A (480 W)	40 A (960 W)
-Peak Current ⁶	1.5 × Nominal Current for 4 seconds minimum while holding voltage > 20 Vdc	
-Short Circuit Current	1.5 x Nominal Current at near zero volts at short circuit condition	
-Current Limit	PowerBoost™	
Parallel Operation ⁷	Switch selectable single unit or parallel unit operation. Units will not be damaged by parallel operation (regardless of switch position setting).	
Holdup Time	>20 mS (Full load, 100 Vac Input @ T amb = +25°C (+77 °F) to 95% output voltage	
Voltage Fall Time	<150 mS from 95% to 10% rated voltage @ full load (T amb= +25°C (+77 °F))	
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, EN61000-3-2	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	Storage: -40 °C to +85 °C (-40 °F to +185 °F), Operation -25 °C to +60 °C (-13 °F to +140 °F) full power, with linear derating to half power from +60 °C to +70 °C (+140 °F to +158 °F) (Convection cooling, no forced air required). Operation up to 50% load permissible with sideways or front side up mounting orientation.	
MTBF ⁹	> 450,000 hrs	> 500,000 hours demonstrated
Warranty	5 Year Limited Warranty	
General Protection/ Safety	Protected against continuous short -circuit, continuous overload, continuous open circuit. Protection Class 1 (IEC536), degree of protection IP20 (IEC60529) Safe low voltage: SELV (acc. IEC60950-1)	
Status Indicators	Visual: 3 status LEDs (Input, Output, Alarm) Relay: N.O. contact rated 200ma/50 Vdc	
	INSTALLATION	
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 if 2x 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 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	Fully enclosed metal housing with fine ventilation grid to keep out small parts.	
-Free Space	25 - 40 mm above and below, 10 mm left and right, 15 mm in front	
Dimensions mm (in) H x W x D	123.0 x 87.0 x 127.0 (4.85 x 3.42 x 4.98)	123.0 x 180.0 x 122.0 (4.85 x 7.09 x 4.81)
Weight kg (lbs)	1.20 (2.6)	2.75 (6.0)

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. 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.

10. 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)

Description	Catalog Number			
	SDN 5-24-480C	SDN 10-24-480C	SDN 20-24-480CC	SDN 40-24-480C
	INPUT			
Nominal Voltage	380 - 480 Vac			
Two - phase input	Yes ¹			
-AC Range ²	320 - 540 Vac			
-DC Range	450 - 760 Vdc	450 - 760 Vdc	450 - 760 Vdc ¹⁰	N/A
-Frequency	50/60 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 meet EN61000-3-2 Class A		Active Power Factor Correction	
	OUTPUT			
Turn on time	Typ. 1s			
Voltage Rise Time	ca. 5-20 ms		<100 ms full resistive load (T amb = +25 °C (+77 °F))	
Power Back Immunity	<35 V			
Overvoltage Protection	>30.5 but <33 Vdc auto recovery			
Nominal Voltage ⁵	24 V (23.5 ~ 28.5 Vdc Adj.)			
Voltage Regulation	< ±2 % overall			
Initial Voltage Setting	24.5 V ± 1%			
-Ripple ⁶	<100 mVpp			
PAR	PAR = 100 mV peak-peak max		PAR = 200 mV 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, 2xNominal Current <2sec	12A, 2xNominal Current <2sec	1.5xNominal Current for 4 sec minimum while holding voltage > 20Vdc	
-Current Limit	PowerBoost™			
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 (+77 °F))		<50 ms from 95% to 10% rated voltage @ full load (T amb = +25 °C (+77 °F))	
Parallel Operation ⁸	Single or Parallel operation selectable via front switch. For redundant operation, use of external diode module is preferred			Active Paralleling
	GENERAL			
Case	Fully enclosed metal housing with fine ventilation grid to keep out small parts.			
Min. Required	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 in front, 25mm left & right
Free Space				
Dimensions mm (in)	123.0 x 50.0 x 111.0 (4.85 x 1.97 x 4.36)	123.0 x 60.0 x 111.0 (4.85 x 2.36 x 4.36)	123.0 x 85.0 x 119.0 (4.85 x 3.35 x 4.68)	123.0 x 180.0 x 119.0 (4.85 x 7.09 x 4.66)
Weight kg (lbs)	.52 (1.2)	0.70 (1.5)	1.30 (2.9)	2.40 (5.3)
EMC: -Emissions	EN61000-6-3:2001, Class B EN55011, EN55022 Radiated and Conducted including Annex. A, EN61000-3-2			
-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			
Temperature	Storage: -40 °C to +85 °C (-40 °F to +185 °F), Operation -25 °C to +60 °C (-13 °F to +140 °F) full power, with linear derating to half power from +60 °C to +70 °C (140 °F to 158 °F) (Convection cooling, no forced air required). Operation up to 50% load permissible with sideways or front side up mounting orientation.			
Humidity	< 90% RH, noncondensing; IEC 60068-2-2, 68-2-3			
Altitude	0 to 3000 meters (0 to 10,000 feet)			
Vibration	2.5(g) RMS, 10-2000 Hz (random); three axes for 20 minutes each - IEC 60068-2-6			
Shock	3(g) peak, three axes, 11 mseconds for each axis - IEC 60068-2-27			
Warranty	5 Year Limited Warranty			
MTBF	>500,000 hrs MTBF (Nominal voltage, full load, T amb = +25 °C (+77 °F))			
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 shutdown with automatic restart			
Status Indicators	Visual: 3 status LEDs (Input, Output, Alarm) Relay: SSR or dry relay contact, signal active when V _{out} = 18.5 Vdc = +/-5%			
	INSTALLATION			
Fusing: -Input	Externally fused			
-Output	Not fused. Output is capable of providing high currents (PowerBoost) for motor load startup.			
Mounting	Simple snap-on to DIN TS35/7.5 or TS35/15 rail system. Unit should handle normal shock and vibration of industrial use and transportation without falling off the rail.			
Connections ⁹	Input: screw terminals, Wiring for the connector will be Ground on the left (when looking at the front of the unit), connector size range: 16-10AWG (1.5-6mm ²) for solid conductors. Screw Torque: 4.4 lb-in (~ 50 N-cm). Output: connector size range, wire gauge 7-6 AWG (10.6-13 mm ²) for solid conductors. Screw Torque: 15.6 lb-in (~ 176 N-cm) for SDN40; all other models: 16-10AWG (1.5-6mm ²) for solid conductors. Screw Torque: 7 lb-in (~ 80 N-cm)			

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_{out}. 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.

SolaHD is our premium line of power-conversion and power quality solutions products under Appleton Group, a business unit of Emerson.

Emerson brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson brands to make electrical installations safer, more productive and more reliable.

Appleton Group is organized into three focused businesses that provide distributors and end-users expert knowledge and excellent service.

Electrical Construction Materials

This group is made up of the Appleton and O-Z/Gedney brands. They manufacture a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial and hazardous lighting. Whether the application is hazardous location, industrial or commercial, the electrical construction materials group has the products to meet your needs.

Power Quality Solutions

The SolaHD brand offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge protection devices and power supplies.

Heating Cable Systems

This group is made up of the EasyHeat and Nelson brands. They offer a broad range of electrical heating cable products for residential, commercial and industrial applications.

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+ 61.3.9721.0348

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+ 55.11.2122.5777

Brazil — Camaçari/BA
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Canada
+ 1.888.765.2226

China
+ 86.21.3338.7087

Europe
+ 33.3.22.54.27.54

Mexico/Latin America
+ 52.55.5809.5049

Middle East/Africa/India
+ 971.4.811.8100

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SOLAHD



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