SOLAHD™

SDN-C Performance DIN Rail Series

High performance specifications and extensive international certifications ensure that the SolaHD SDN-C is suitable for the most extreme environments, including hazardous locations and off-shore applications. Features like wide operating temperature range, power boost capability, and adjustable output voltage ensure reliable operation in the harshest industrial environments. Parallel operation, extensive LED diagnostics, and universal AC or DC input voltage simplify installation and maintenance. For added reliability, the SDN-C power supplies can be used with the SolaHD Redundancy modules to provide redundant power supply operation.

Applications

- Industrial Automation
- Process Control
- Material Handling and Conveyors
- Hazardous Locations
- Marine Applications

Features

- Extensive international hazardous location certifications, including Class I, Zone 2, ATEX, IECEx, ExEAC. Hazardous location temperature code (T-Code) rating of T4.
- International off-shore certifications, including ABS and DNV-GL
- PowerBoost™ enables short duration overload capability, to start loads with high inrush current
- Three LEDs provide extensive diagnostics
- Dual output terminals for convenience in wiring
- DC OK relay to provide diagnostic information to a PLC, controller, or monitoring system
- Universal AC and DC input voltages to accommodate global requirements
- Wide operating temperature range accommodates both extreme hot and extreme cold environments
- Active Power Factor Correction on most models
- Parallel operation capability standard
- Supports redundant power supply operation using optional SDN™ Redundancy modules
- 5-year limited warranty

c(UL)us E61379 c(UL)us E137632 E234790

CE (Ex)

IECEx Ex EAC

ABS DNV-GL

KC

Certifications and Compliances *

All Models
- c(UL)us Listed, Ind. Control Equipment, E61379
  - UL 508, CSA C22.2 No. 107.1
- c(UL)us UL Recognized Component, ITE, E137632
  - UL 60950-1/CSA C22.2 No. 60950-1, 2nd Edition
- c(UL)us UL Recognized Component, Class I, Div 2; Class I Zone 2; T4 E234790
- CE - Low Voltage Directive
  - IEC/EN60950-1, 2nd Edition
- RoHS Compliant

Models SDN 5-24-100C, SDN 10-24-100C, SDN 16-12-100C, SDN 20-24-100C, SDN 40-24-100C, SDN 5-24-480C, SDN 10-24-480C, SDN 20-24-480CD

- c(UL)us UL Recognized Component, Haz. Loc., E234790
  - UL60079-0/CSA E60079-0, UL 60079-15, CSA E60079-15
  - Class I, Zone 2, AEx nA nC IIC, Ex nA nC IIC
- (Ex) ATEX Directive
  - EN60079-0, EN60079-7, EN60079-15
  - (Ex) II 3 G, Ex ec nC IIC Gc
- **IECEx** Certified
  - IEC 60079-0, IEC 60079-7, IEC 60079-15
  - Ex ec nC IIC Gc

Models SDN 5-24-100C, SDN 10-24-100C, SDN 16-12-100C, SDN 20-24-100C, SDN 40-24-100C, SDN 5-24-480C, SDN 10-24-480C

- Ex EAC TR CU 012/2011 Safety of Equipment intended for Explosive Atmospheres
- ABS Type Approval

Models SDN 5-24-100C, SDN 10-24-100C, SDN 16-12-100C, SDN 20-24-100C, SDN 40-24-100C

- DNV-GL Type Approved

Models SDN 5-24-100C, SDN 10-24-100C, SDN 20-24-100C, SDN 40-24-100C

- KC Certified

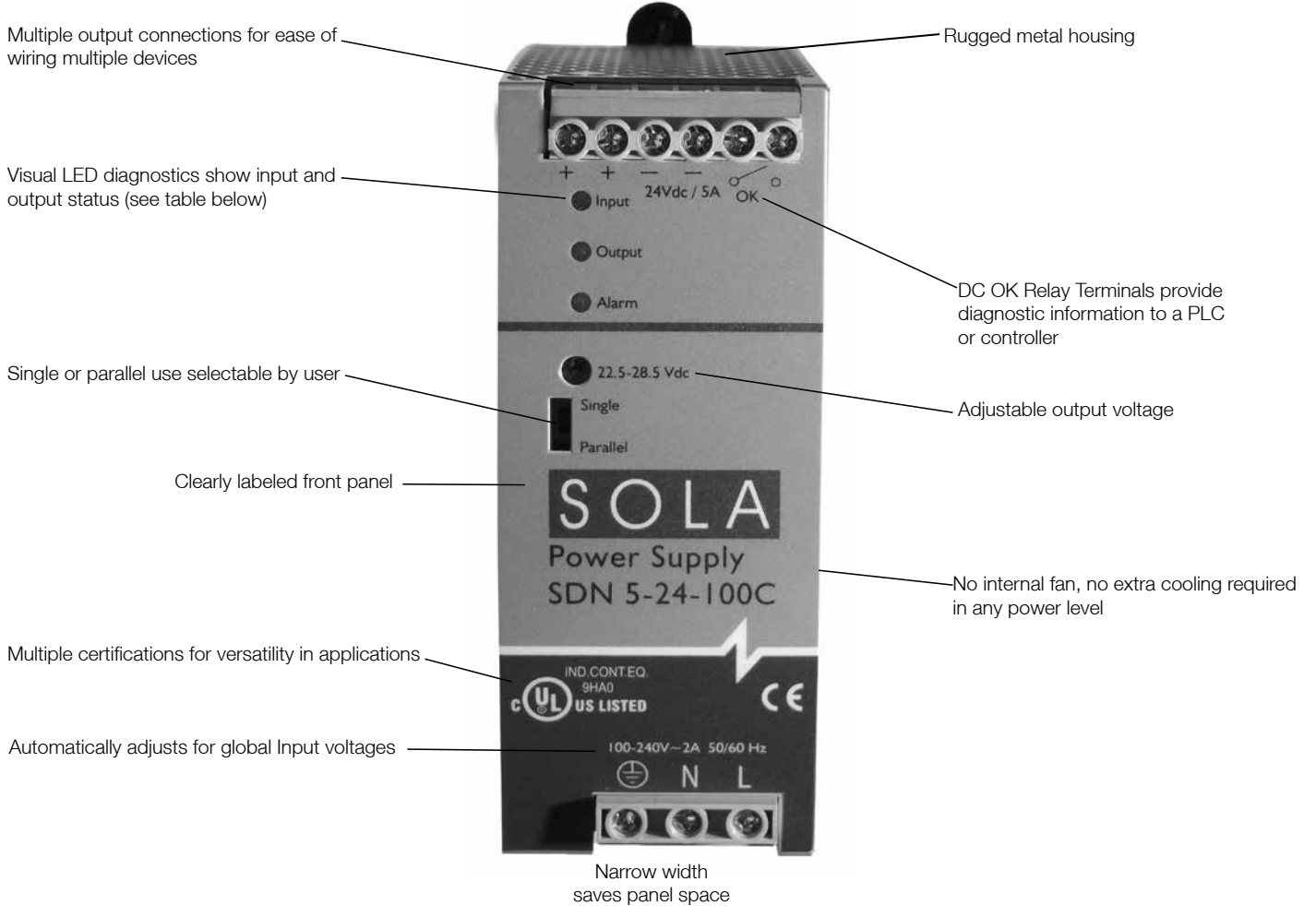* Refer to user manual for installation requirements when used in hazardous locations.

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Related Products

- SDN-C Redundancy Modules
- IP67 SCP-X Extreme Environment Series
- SDU UPS

Accessories

- Chassis Mount Brackets

The SolaHD Difference

Multiple output connections for ease of wiring multiple devices

Rugged metal housing

Visual LED diagnostics show input and output status (see table below)

DC OK Relay Terminals provide diagnostic information to a PLC or controller

Single or parallel use selectable by user

Adjustable output voltage

Clearly labeled front panel

No internal fan, no extra cooling required in any power level

Multiple certifications for versatility in applications

Automatically adjusts for global Input voltages

SOLA Power Supply SDN 5-24-100C

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	-	Amber	Green	Green	Green	Green	Green
Output	Green	-	Green	-	Amber	Amber	Green	-
Alarm	-	-	-	Red	Amber	Red	Amber	Amber

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