

SolaHD™ SDN-D High Performance Din Rail Series

The SolaHD SDN-D high performance DIN rail power supply boasts one of the highest efficiencies available in the market today. Higher efficiency means less heat is generated, potentially extending the life of all components in the enclosure. Extensive diagnostic monitoring capabilities are possible with the optional SCM network communication module, which utilizes popular industrial network protocols to provide critical power supply data to computers, PLCs, DCSs HMIs, and other devices.



Applications

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

Features

- High performance unit in a compact package
- Optional network communications modules provides important diagnostic information to controllers, HMI, and computers
- Continuous Power Boost: Up to 120% continuous, for temperatures up to 50 °C
- Multi-turn potentiometer simplifies accurate setting of output voltage
- Extensive international hazardous location certifications, including Class I Zone 2, ATEX, and IECEx. Hazardous location temperature code (T-Code) rating of T4
- Inductive Load Power Boost additional short term power, to assist in starting loads with high inrush current
- Dual output terminals for convenience in wiring
- DC OK relay to provide diagnostic information to a PLC, controller, or monitoring system
- Circuit Interruption Power Boost provides short duration peak current sufficient to trip properly-sized load side fuse or circuit breaker in the event of a load fault
- 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 greater than 0.98
- Parallel operation capability standard
- Supports redundant power supply operation using optional SDN™ Redundancy modules
- 5-year limited warranty

Certifications and Compliances

- Listed, Electrical Equipment for Measurement, Control and Laboratory Use; Control Equipment, E61379
– UL/CSA 61010-1, UL/CSA 61010-2-201

For more information: www.Emerson.com/SolaHD

SOLAHD™

- UL Recognized Component, ITE, E137632
– UL/CSA 62368-1
- UL Recognized Component, Haz Loc, E234790;
Class I Div 2, Groups A, B, C, D T4
– UL 121201/CSA 213
- Low Voltage Directive
– IEC/EN60950-1, IEC/EN 62368-1,
IEC/EN 61010-1, IEC/EN 61010-2-201
- Certified: IEC/EN 62368-1, IEC/EN 61010-1,
IEC/EN 61010-2-201
- ATEX Directive
Model SDN 10-24-100D
– EN IEC 60079-0, EN IEC 60079-7
– II 3 G, Ex ec IIC T4 Gc
Model SDN 20-24-100D, SDN 40-24-100D
– EN IEC 60079-0, EN IEC 60079-7, EN IEC 60079-15
– II 3 G, Ex ec nC IIC T4 Gc
- IECEx Certified
Model SDN 10-24-100D
– IEC 60079-0, IEC 60079-7; Ex ec IIC T4 Gc
Model SDN 20-24-100D, SDN 40-24-100D
– IEC 60079-0, IEC 60079-7, IEC 60079-15;
Ex ec nC IIC T4 Gc
- RoHS (Europe, China)

Related Products

- IP67 SCP-X Standalone Power Supplies
- SDU UPS

Accessories

- SCM Network Communication Modules for Power Supplies
- SDN Redundancy Modules
- Chassis Mount Brackets



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SolaHD™ SDN-D High Performance Din Rail Series

Visual Specifications

Multiple output connections for ease of wiring multiple devices

Single two-color LED, with printed status legend, provides intuitive diagnostic information

Automatically adjusts to single or parallel operation, no switch required

Clearly labeled front panel

Automatically adjusts for global Input voltages

Multiple certifications for versatility in applications

Connection to optional SCM Network Communication Module, to provide extensive diagnostic capabilities

Rugged metal housing

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

Multi-turn potentiometer, for precise setting of desired output voltage

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

Up to 31% narrower than SDN-C models

LED Light Status Conditions

OK	Loss of AC	Continuous Power Boost	Inductive Load Power Boost	Overload	Too Hot
Green (steady)	-	Green (blinking)	Power alternatives On/Off: Green (4s blinking): Output ON Red (4s blinking): Output OFF	Red (blinking)	Red (steady)

Dimensions

Catalog Number	Dimensions - inches (mm)		
	H	W	D
SDN-10-24-100D	4.8 (123)	2.0 (50)	4.4 (111)
SDN-20-24-100D	4.8 (123)	2.4 (60)	5.0 (127)
SDN 40-24-100D	4.8 (123)	4.9 (125)	5.3 (135)

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