

SCP-X Series



The SCP-X is a rugged power supply designed for use in extreme environments. The metal case reduces costs by eliminating separate enclosures and the quick change connectors simplify connectivity for distributed I/O devices on industrial machinery. This model provides 24 Vdc output with limited power to meet Class 2 requirements.

Features

- IP66/67 Versatile / NEMA 4X Rated
- Listed power supply for stand alone applications
- Can be mounted in any orientation without limitation
- Universal input
- High ambient temperature up to 60°C without derating
- DC OK Green LED
- Worldwide approvals

Accessory

Catalog Number	Description	Approx. Ship Weight lbs (kg)
SCP-DINBKT	Mounting bracket to secure SCP-X to DIN Rail	1 (.45)

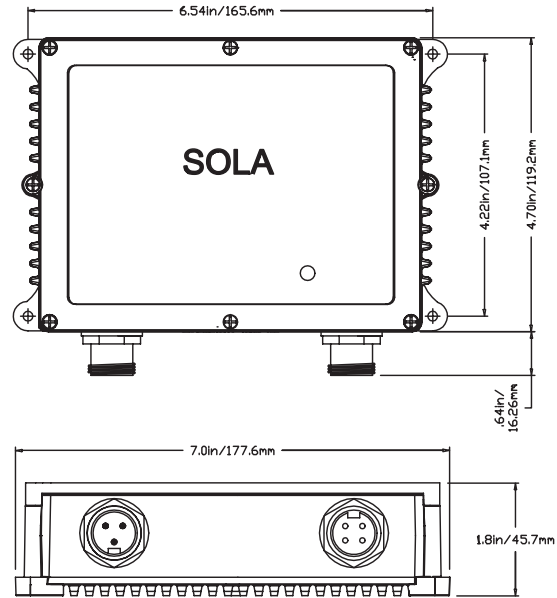
Related Products

- SDN Series
- SCP Series

Selection Table

Catalog Number	Output Current	Output Voltage	Output Power
SCP 100S24X-CM	3.8 A	24 Vdc	95 W

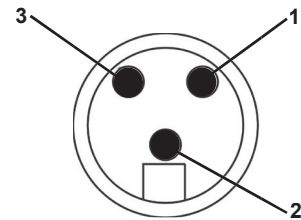
Mechanical Diagrams



Electrical Connections

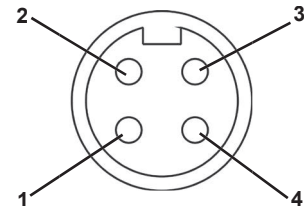
AC Input - EN175301-803 (formerly DIN 43650)

1. L₁ (Line)
2. Ground
3. L₂ (Neutral)



DC Output - EN175301-803 (formerly DIN 43650)

1. V+
2. Ground*
3. V-**
4. V+



* Ground is isolated from V-.

** V- is isolated from ground. V- is a separately derived source so it is permissible to bond to group if required in the application.

SCP-X Specifications

Input	
Nominal Voltage	Any voltage from 100 to 240 Vac Input
-AC Range	85-264 Vac Universal Input
-DC Range	100-353 Vdc
Nominal Current ¹	1.6A/0.7A
-Inrush current max.	Typ. <25A
Power Factor Correction	0.95
Frequency	50/60/400 Hz
Output	
Power Back Immunity	35V
Overvoltage Protection	25-25.5 Vdc, autorecovery
Nominal Voltage	24 Vdc
Tolerance	< +/-2% overall (combination line, load, time and temperature related changes).
- Line Regulation	< 0.5%
- Load Regulation	< 0.5%
- Time & Temp. Drift	< 1%
Ripple ²	< 50mVpp
Nominal Current	3.8A
Holdup Time	> 25ms (Full load, 100Vac Input @ Tamb=+25°) to 95% output voltage
General	
Case	IP66/67 versatile ingress protection; also meets UL50 Type 4X enclosure.
Min. Required Free Space	1 in. (25 mm) all sides but mounted base (permissible to mount in any orientation)
H x W x D (inches/mm)	4.7 in. x 7 in. x 1.8 in.(119 mm x 178 mm x 46 mm)
Weight (lbs/kg)	2.6 lbs (1.16 kg)
EMC	
Emissions	EN61000-6-3, EN61204-3, EN55022 Class B, EN61000-3-2, EN61000-3-3
Immunity	EN61000-6-2, EN61204-3, EN55024, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11
Approvals	UL508, cULus; UL60950, cULus; UL60079-15 cRUus; IEC60950; CE (LVD 73/23 & 93/68/EEC). (EMC 89/336 & 93/68/EEC). EN61000-3-2, EN50021 (Class 1, Division 2 Hazardous Location, EEX nA IIC T4 U up to 60°C Ambient.) ³
Temperature	Storage: -40° to +85°C, Operation: -40° to +60°C full power with linear derating to half power from 60° to 70°C (Convection cooling, no forced air required). Operation up to 100% load permissible with sideways or front side up mounting orientation.
Humidity	Up to 100% RH with condensation.
Altitude	0 to 3,000 meters (0 to 10,000 feet)
Vibration	0.15 gravity (g) peak, 5-500 Hz (swept sine); 5-500 Hz (random)
Shock	3g peak, 11 milliseconds half-sine pulse - IEC 68-2-27
Warranty	5 years
MTBF	>500,000 hours according to Telcordia/Bellcore SR-332 Issue 1, (Vin 120Vac, Tamb=40°C)
General Protection/Safety	Protected against continuous short-circuit, continuous overload, continuous open circuit. Protection class 1 (IEC536), degree of protection IP66/67 versatile (IEC 529). Safe low voltage: SELV (acc. IEC60950)
Status Indicators - Visual	DC OK LED
Installation	
Fusing	
-Input	Internally fused, fuses not replaceable
-Output	Inherently limited current to meet Class 2 requirements per UL1310
Mounting	Chassis mounted via built in mounting tabs. Removal and replacement of the unit shall be possible from front of panel.
Connections	Input: 3 pin IP67 molded plug (quick disconnect). Output: 4 pin IP67 molded receptacle (quick disconnect).

¹ Input current ratings are specified with low input, line conditions, worst case efficiency values and power factor.

³ Additional installation requirements apply when used in hazardous locations (refer to user manual).

² Ripple/noise is stated as typical AC values when measured with a 20 MHz, bandwidth scope and 50 Ohm termination.