

# SCP Series, 30 Watt; Single, Dual and Triple





These switchers are compact, rugged power supplies designed to power many of your industrial control and instrumentation devices and equipment, with high reliability and tight regulation through the most difficult factory-floor conditions around the globe. "User friendly" applies to these unique power supplies that feature easy-to-install DIN Rail and chassis mounting. Terminations are also easy to access (AC and DC terminations are well separated) and simple to wire. Safety is another aspect where the SCP distinguishes itself. The encapsulated design meets IP20 specifications, and the wide range of voltages will reliably support almost any low-power device in your cabinet or system for years to come.

#### **Features**

- International approvals for global use
- DIN Rail or Chassis Mount
- Rugged, encapsulated design to resist environment
- IP20 protection
- Many output voltages, 3.3-48 Volts; single, dual, triple
- Five year limited warranty

#### **Packaging and Mounting Specifications**

- Simple snap-on for DIN Rail TS35/7.5 or TS35/15
- M3 screw clamp terminations
- Chassis mounting possible on -DN Low-Profile versions by removing DIN clips (simply unscrew at the back of the unit).

#### **Selection Table**

Low Profile Catalog Number	Description	Output Voltages					Min		
		V1		V2		V3		Load V1	Efficiency %
		Vdc	A	Vdc	Α	Vdc	A	A	,0
SCP 30S3.3-DN	3.3 V	3.3	6.0	-	-	-	-	0	≥ 62
SCP 30S5-DN	5 V	5	6.0	-	-	-	-	0	≥ 70
SCP 30S12-DN	12 V	12	2.5	-	-	-	-	0	≥ 75
SCP 30S15-DN	15 V	15	2.0	-	-	-	-	0	≥ 75
SCP 30S24-DN	24 V	24	1.3	-	-	-	-	0	≥ 77
SCP 30S48-DN	48 V	48	0.6	-	-	-	-	0	≥ 77
SCP 30D12-DN	Dual O/P +/- 12 V	12	1.2	-12	1.2	-	-	0.12	≥ 68
SCP 30D15-DN	Dual O/P +/- 15 V	15	1.0	-15	1.0	-	-	0.15	≥ 68
SCP 30D512-DN	Dual O/P 5 V & 12 V	5	3.0	12	1.2	-	-	0.3	≥ 68
SCP 30D524-DN	Dual O/P 5 V & 24 V	5	3.0	24	0.6	-	-	0.3	≥ 68
SCP 30T512-DN	Triple O/P 5/12/12 V	5	3.0	-12	0.6	12	0.6	0.3	≥ 68
SCP 30T515-DN	Triple O/P 5/15/15 V	5	3.0	-15	0.5	15	0.5	0.3	≥ 68

Please order using the following model number suffixes:

**-DN:** Low Profile – DIN Rail or Chassis Mount (ie: SCP30S3.3-DN).

**B-DN:** Slim Line – DIN Rail Mount Availability Only (ie: SCP30S3.3B-DN).

Note: Slim line version not available on SCP30D512-DN

#### **Options and Accessories**

- SCP-MDC Pair of metal DIN clips
- SCP-PDC 1 plastic DIN clip with lever for removal from rail

## **Certifications and Compliances**

- c Sus UL Recognized Component, ITE, E137632
- (6
- IEC/EN 60950-1, 2nd Edition
- IP20



## **Specifications**

Parameter	Condition	Value						
Input								
AC Input Voltage	_	85 - 264 Vac						
DC Input Voltage	_	100 - 375 Vdc						
Input Frequency	_	50/60 HZ						
Filtering EMI/RFI	_	EN 55011/B, 55022/B						
Switching Frequency	_	Typ. 100 kHz						
Input Fusing Required	_	Use 2.0 A Slow Fuse						
Output								
Output Voltage Accuracy	V <sub>in</sub> = 230V, I <sub>out</sub> = max, 25°C	V1 ≤ ±1%, V2/3 ≤ ±3%						
Ripple	V <sub>in</sub> =min, I <sub>out</sub> =max, 25°C	≤1%, V <sub>out</sub>						
Noise	V <sub>in</sub> =min, I <sub>out</sub> =max, 25°C	≤2%, V <sub>out</sub>						
Line Regulation	V <sub>in</sub> =min/max 25°C I <sub>out</sub> = max, 25°C	≤+0.5%, V <sub>out</sub>						
Load Regulation	l <sub>out</sub> = 10 to 90 to 10%, 25°C V <sub>in</sub> = 230 Vac, 25°C	≤+0.5%, V <sub>out</sub>						
Overcurrent Protection	_	105 to 130% I <sub>nom</sub>						
Load Regulation Timing	10 to 90 to 10%, 25°C	<4 ms						
Temperature Coefficient	$T_{amb} = -25 \text{ to } +65^{\circ}\text{C}$	0.01%/K						
Overload/Short Circuit	verload/Short Circuit Continuous							
Derating Single/Dual/Triple	T <sub>amb</sub> >50°C	2/3/5%/K max						
	General							
Holdup Time	V <sub>in</sub> =230 Vac	>50 ms						
Operating Temperature		-25 to +65°C						
Storage Temperature	$T_{amb} = 25^{\circ}C$	45 to +85°C						
Case Temperature Rise at Full Load	_	45 K max						
MTBF at 25°C (input/output)	acc. MIL-HDBK-217F	800,000 hrs						
Transient Protection	_	EN61000-4-2, 3, 4, 5						
Cooling	_	Convection						
Weight – Ibs (kg)	0.7 lbs (.34 kg)	0.8 lbs (.38 kg)						
Case Material/Potting	_	UL94-VO						
Protection	_	IP20						
Visual Indicators	_	Green LED indicates DC OK for B-DN Slim Line versions only						

## Dimensions (H x W x D)

#### • Low Profile "-DN"

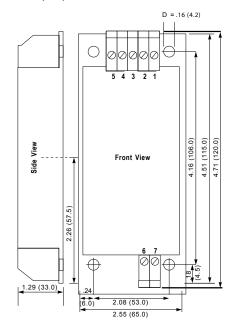
 $4.72 \times 2.55 \times 1.29$  inches (120.0 x 65.0 x 33.0 mm) (Takes up 2.55 inches or 65.0 mm on DIN Rail)

## • Slim Line "B-DN"

4.72 x 1.29 x 2.68 inches (120.0 x 33.0 x 68.0 mm) (Takes up 1.29 inches or 33.0 mm on DIN Rail)

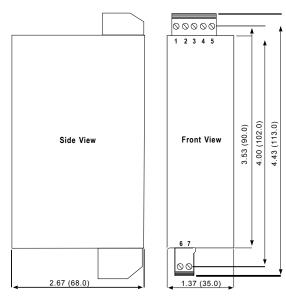
## Dimensional Diagram - in (mm)

#### Low Profile DIN Rail (-DN) or Chassis Mount \*



<sup>\*</sup> Unscrew DIN connector for chassis mounting.

## Slim Line DIN Rail Mount only (B-DN)



## Pin-Out

SCP 30	1	2	3	4	5	6	7
Single				RETURN	+V1	IN	IN
Dual sym			-V2	COM	+V1	IN	IN
Dual asym		COM (V1)	+V1	COM V3	+V3	IN	IN
Triple	-V2	COM (V1)	COM (V2/3)	+V1	+V3	IN	IN

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for DIN Rail Power Supplies category:

Click to view products by Sola manufacturer:

Other Similar products are found below:

PS-S6024 DVP01PU-S DVP06AD-S DVP06XA-S DVPDNET-SL DVPDT01-S DVPPS01 PS-6012 PS9Z-5R1G PS-C24024

DVP08ST11N DVPACAB530 DVPCOPM-SL DVPEN01-SL DVPPF01-S ADNB008-48-1PM-C ADNB017-24-1PM-C ADNB040-24
1PM-C ADNB034-12-1PM-C SS14011524 PS-UPS40 PSC-6024 PSD-A60W12 96PS-A120WDIN PSD-A60W48 PSD-A40W12 PSD-A40W24 SMP21-L20-DC24V-5A PSD-A40W48 S8T-DCBU-02 PS-S4024 NTPS-24-1.3 ZI-20 PST-96024 S82YVSC4P PS-S4005 PS-10024 PS-S10024 PS-C12024 PSP-480S24 PS-C48024 PSC-2024 PSC-4012 PSC-4048 PSC-9615 PSC-15124 PSC-15148 PSC-24148 PSC-48148 TRIO-PS-2G/1AC/12DC/5/C2LP