

SCP Series, 30 Watt; Single, Dual and Triple





 E137632

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 Load V1 A | Efficiency % |
|----------------------------|----------------------|-----------------|-----|-----|-----|-----|-----|---------------|--------------|
| | | V1 | | V2 | | V3 | | | |
| | | Vdc | A | Vdc | A | Vdc | A | | |
| 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

-  UL Recognized Component, ITE, E137632
-  - 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 | $V_{in} = 230V, I_{out} = \text{max}, 25^{\circ}C$ | $V1 \leq \pm 1\%, V2/3 \leq \pm 3\%$ |
| Ripple | $V_{in} = \text{min}, I_{out} = \text{max}, 25^{\circ}C$ | $\leq 1\%, V_{out}$ |
| Noise | $V_{in} = \text{min}, I_{out} = \text{max}, 25^{\circ}C$ | $\leq 2\%, V_{out}$ |
| Line Regulation | $V_{in} = \text{min/max } 25^{\circ}C$ $I_{out} = \text{max}, 25^{\circ}C$ | $\leq +0.5\%, V_{out}$ |
| Load Regulation | $I_{out} = 10 \text{ to } 90 \text{ to } 10\%$, $25^{\circ}C V_{in} = 230 \text{ Vac}, 25^{\circ}C$ | $\leq +0.5\%, V_{out}$ |
| Overcurrent Protection | — | 105 to 130% I_{nom} |
| Load Regulation Timing | 10 to 90 to 10%, $25^{\circ}C$ | <4 ms |
| Temperature Coefficient | $T_{amb} = -25 \text{ to } +65^{\circ}C$ | 0.01%/K |
| Overload/Short Circuit | Continuous | |
| Derating Single/Dual/Triple | $T_{amb} > 50^{\circ}C$ | 2/3/5%/K max |
| General | | |
| Holdup Time | $V_{in} = 230 \text{ Vac}$ | >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 – lbs (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 x 2.55 x 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)

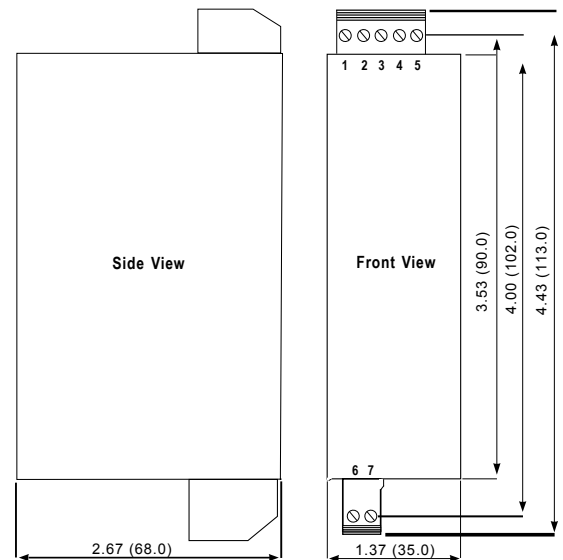
Dimensional Diagram – in (mm)

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



* 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 |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru