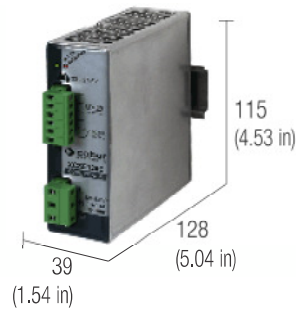
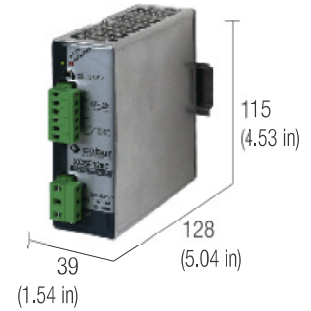


Single-phase switching power supply 120-230 Vac 24 Vdc regulated output

- Single-phase input 90...264 Vac and DC 100...370 Vdc
- Short circuit, overload, over temperature, input / output overvoltage protection
- High efficiency and low dissipated power
- Designed for use in SELV and PELV circuits
- Pluggable connections



24 Vdc 4 A @ 45°C - 96 W



24 Vdc 6 A @ 45°C - 144 W

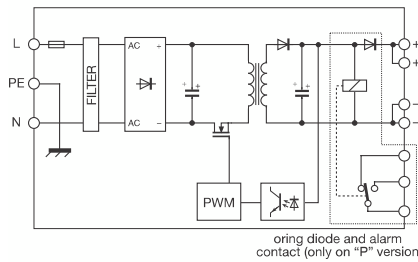
NOTES

The dimension includes 35 mm DIN rail.

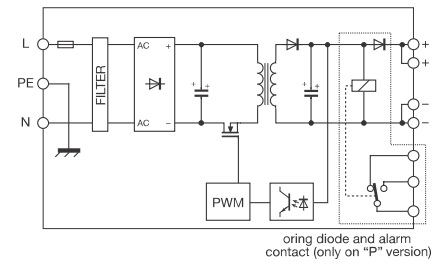
(1) Version with Oring diode and failure contact for redundant parallel connection

(2) With 100...127 Vdc input voltage, constant output power and $T_a > 45^\circ\text{C}$, the output current must be derated by 25%

BLOCK DIAGRAM



BLOCK DIAGRAM



APPLICATIONS

With 120-230 Vac input range, these power supplies are designed to operate worldwide. The devices comply with IEC and EN EMC Standards for building automation applications without any external filter.

The design of these power supplies was focused on achieving high efficiency operation, thereby reducing energy consumption and operating temperature of the components. This high efficiency design also provides for a +20% power boost at an operating temperature of 45°C, without exceeding the standard temperature limits and guaranteeing safety and reliability.

Short-circuit, overload and over temperature protection are set to give +150% of the rated current to feed heavy loads and to handle start-up currents. The over temperature protection prevents failure of the power supply in the event of a long overload duration with a high ambient temperature. Output is overvoltage protected. The housing design assures maximum ventilation of internal components, space saving dimensions and an IP20 protection degree according to IEC529 Std.

Battery charger:

These units are suitable as battery chargers while feeding other loads. To allow a power supply to charge batteries, we developed the cost effective CSBC module (Cat. No. XCSBC), featuring protection diodes, current charge limiting resistor and battery protection fuse. For more details, refer to the accessories section.

VERSIONS

- Standard
- With failure contact

INPUT TECHNICAL DATA

- Rated voltage
- Frequency
- Current @ lout max.
- Inrush current
- Power factor
- Protection fuse
- External circuit breaker

OUTPUT TECHNICAL DATA

- Voltage
- Maximum current
- Continuous current
- Load regulation
- Ripple @ rated U-I output
- Hold up time
- Overload / short circuit protection
- Output signal standard version
- Parallel connection "P" version
- Redundant parallel connection

APPROVALS

GENERAL TECHNICAL DATA

- Efficiency
- Dissipated power
- Operating temperature
- Input / output isolation
- Input / ground isolation
- Output / ground isolation
- Protection degree
- Standard / approvals
- EMC Standards
- Connection terminal
- Housing material
- Approx. weight
- Mounting information
- Mounting rail type according to IEC60715/TH35-7.5

TYPE / Cat. No.

- CSF85C** Cat. No. XCSF85C
- CSF85CP** (1) Cat. No. XCSF85CP

- 120-230 Vac** (range 90...264 Vac / 100...370 Vdc) (3)
- 47...63 Hz
- 1.3 A @ 120 Vac / 0.7 A @ 230 Vac $\pm 10\%$
- < 20 A
- > 0,7
- internal: T 2 A replaceable
- 4 A with C curve

- 24 Vdc** (adjustable 24...27.5 Vdc)
- 5 A @ 120 Vac / 6 A @ 230 Vac
- 4 A** @ 45°C / 3 A @ 60°C
- < 1%
- ≤ 40 mVpp @ 230 Vac
- > 20 ms @ 230 Vac full load
- hiccup 1.6 circuit auto reset / over temperature protection
- SPDT 1 A / 250 Vac - 30 Vdc
- possible
- "P" version with Oring diode



TYPE / Cat. No.

- CSF120C** Cat. No. XCSF120C
- CSF5120CP** (1) Cat. No. XCSF120CP

- 120-230 Vac** (range 90...264 Vac / 100...370 Vdc) (2)
- 47...63 Hz
- 1.8 A @ 120 Vac / 1 A @ 230 Vac $\pm 10\%$
- < 20 A
- > 0,7
- internal: T 3,15 A replaceable
- 4 A with C curve

- 24 Vdc** (adjustable 24...27.5 Vdc)
- 8 A @ 120 Vac / 10 A @ 230 Vac
- 6 A** @ 45°C / 5 A @ 60°C
- < 1%
- ≤ 50 mVpp @ 230 Vac
- > 20 ms @ 230 Vac full load
- hiccup 1.6 circuit auto reset / over temperature protection
- SPDT 1 A / 250 Vac - 30 Vdc
- possible
- "P" version with Oring diode



- >87% @ 120 Vac / >91% @ 230 Vac
- 18 W @ 120 Vac / 12 W @ 230 Vac
- 20...+60°C, with over temperature protection
- 3 kVac / 60 s
- 1.5 kVac / 60 s
- 0.5 kVac / 60 s
- IP 20 IEC 529 EN60529
- EN50178, EN61558, EN60950, UL508
- EN61000-6-2, EN61000-6-4, EN55011, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11
- 2.5 mm², screw type pluggable (24-12 AWG)
- aluminium and stainless steel
- standard version 535 g / "P" version 555 g (1.18/1.22 lbs)
- vertical on rail, allow 10 mm spacing between adjacent components
- PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**