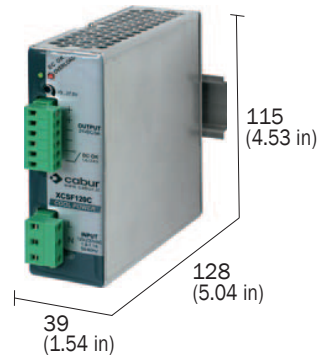


Single-phase switching power supply 120-230 VAC output power 120 W, with power quality stabilizing

- Single-phase input 90...264 Vac and DC 100...345 Vdc
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Failure contact for Uout -10%
- Compact dimensions
- Suitable for applications in SELV and PELV circuits



NOTES

- The depth dimension includes the terminal blocks and the DIN clamp.
- (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%
- (3) Over 45°C (113°F) apply a derating $-0.08\text{ A}/^\circ\text{C}$ for version C, CP and CPH; $-0.12\text{ A}/^\circ\text{C}$ for version B; $-0.05\text{ A}/^\circ\text{C}$ for version DP;
- (4) For this peak current, the output voltage does not drop more than 10% of the nominal value, but the current value, provided by the power supply also depends on the total line resistance.
- (5) Only on version CSF120CP, for orders, adds the letter H to the code (XCSF120CPH)
- (6) article available till seal-out

VERSIONS

- Output 24 Vdc 5 A
- Output 24 Vdc 5 A redundant version
- Output 12...15 Vdc 7 A
- Output 48 Vdc 2.5 A

INPUT TECHNICAL DATA

- Input rated voltage
- Frequency
- Current @ nominal Iout (Uin 120 /230 Vac) Inrush peak current
- Power factor
- Internal protection fuse
- External protection on AC line

OUTPUT TECHNICAL DATA

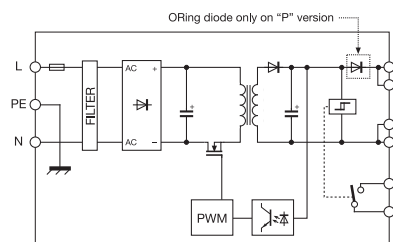
- Output rated voltage
- Output adjustable range
- Continuous current
- Overload limit
- Short circuit peak current
- Load regulation
- Ripple @ nominal ratings
- Hold up time @ In (Uin 120 / 230 Vac)
- Overload / short circuit protections
- Status display
- Alarm contact threshold
- Parallel connection
- Redundant parallel connection

GENERAL TECHNICAL DATA

- Efficiency (Uin 120 / 230 Vac)
- Dissipated power (Uin 120 / 230 Vac)
- Operating temperature range
- Input/output isolation
- Input/ground isolation
- Output/ground isolation
- Standard/approvals
- EMC Standards
- MTBF @ 25°C @ nominal ratings
- Overvoltage category/Pollution degree
- Protection degree
- Connection terminal
- Housing material
- Approx. weight
- Mounting information

- Mounting rail type according to IEC60715/TH35-7.5
- Mounting rail type according to IEC60715/G32

BLOCK DIAGRAM



Special version for DC motors

| Cod. XCSF120C CSF120C | Cod. XCSF120CP CSF120CP | Cod. XCSF120B CSF120B (6) | Cod. XCSF120DP CSF120DP |
|---|--|--|----------------------------|
| 120-230 Vac (range 90...264 Vac / 100...345 Vdc) (2) | | | |
| 47...63 Hz | | | |
| 1.9 A / 1.1 A \pm 10% | | | |
| < 20 A | | | |
| > 0.65 | | | |
| T 3.15 A replaceable | | | |
| circuit breaker: 4 A - C characteristic - fuse: T 4 A | | | |
| 24 Vdc 23...27.5 Vdc 5 A @ 45°C (3) 8 A for >30 s with 90% Un (4) 15 A for 50 ms (4) | 12...15 Vdc 12...15 Vdc 7 A @ 45°C (3) 8 A for >30 s with 90% Un (4) 15 A for 50 ms (4) | 48 Vdc 45...55 Vdc 2.5 A @ 45°C (3) 8 A for >30 s with 90% Un (4) 7.5 A for 50 ms (4) | |
| < 1% | | | |
| ≤ 30 mVpp | | | |
| >17 ms / >72 ms | | | |
| < 1% | | | |
| ≤ 30 mVpp | | | |
| >24 ms / >80 ms | | | |
| >16 ms / >81 ms | | | |
| hiccup at the overload limit with auto reset / over temperature protection | | | |
| "DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED | | | |
| <21.6 Vdc | | | |
| <10.8 Vdc | | | |
| <43.2 Vdc | | | |
| possible | | | |
| possible | | | |
| possible | | | |
| possible | | | |
| possible with external ORing diode | | | |
| factory provided with internal ORing diode | | | |
| possible with external ORing diode | | | |
| factory provided with internal ORing diode | | | |
| >86% / >90% | | | |
| >85% / >89% | | | |
| >86% / >90% | | | |
| 19 W / 13 W | | | |
| 21 W / 15 W | | | |
| 20 W / 13 W | | | |
| 20...+60°C, with derating over 45°C / over temperature protection (3) | | | |
| 3 kVac / 60 s SELV output | | | |
| 1.5 kVac / 60 s | | | |
| 0.5 kVac / 60 s | | | |
| EN50178, EN61558, EN60950, IEC950, UL508, UL60950 | | | |
| EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 | | | |
| >500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F | | | |
| II/3 | | | |
| IP 20 IEC 529, EN60529 | | | |
| 2.5 mm ² pluggable screw type | | | |
| aluminium | | | |
| 400 g (14.12 oz) | | | |
| vertical on rail, allow 10 mm spacing between adjacent components | | | |
| PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB | | | |