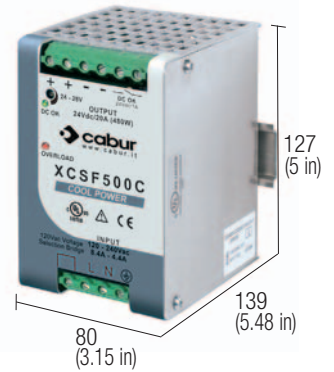


Single-phase switching power supply 120-230 Vac output power 500 W

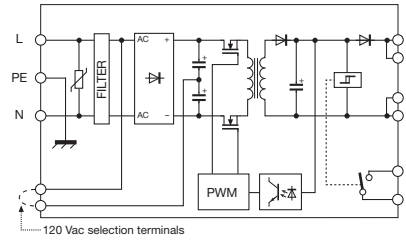
- Single-phase input 120 and 230 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Compact dimensions
- Suitable for applications in SELV and PELV circuits
- Failure contact for Uout -10%



NOTES

- The depth dimension includes the DIN rail clamp.
- (2) Double input selectable with external jumper.
 - (3) Over 45°C (113°F) apply a derating: C version: -0.34 A/°C for version C; -0.17 A/°C for version D;
 - (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.

BLOCK DIAGRAM



Special version for DC motors

| VERSIONS | Cod. XCSF500C | | Cod. XCSF500D |
|---|---|--|--|
| Output 24 Vdc 20 A | - | | |
| Output 24 Vdc 20 A redundant version | | | |
| Output 12...15 Vdc 40 A | | | |
| Output 48 Vdc 10 A redundant version | | | |
| INPUT TECHNICAL DATA | 120-230 Vac (range 90...132 Vac / 185...264 Vac) (2) | | |
| Input rated voltage | 47...63 Hz | | |
| Frequency | 4.1 A / 2 A ± 10% | | |
| Current @ nominal Iout (Uin 120 / 230 Vac) | < 25 A with electronic limiter | | |
| Inrush peak current | > 0.75 with PFC | | |
| Power factor | - | | |
| Internal protection fuse | circuit breaker: 16 A C characteristic - fuse: T 15 A | | |
| External protection on AC line | | | |
| OUTPUT TECHNICAL DATA | 24 Vdc | | 48 Vdc |
| Output rated voltage | 24...28 Vdc | | 45...55 Vdc |
| Output adjustable range | 20 A @ 45°C (3) | | 10 A @ 45°C (3) |
| Continuous current | 30 A for >5 s | | 15 A for >5 s |
| Overload limit | with Uout >90% Un (4) | | with Uout >90% Un (4) |
| Short circuit peak current | >50 A for 5 s (4) | | >50 A for 5 s (4) |
| Load regulation | < 0.5% | | < 0.5% |
| Ripple @ nominal ratings | ≤ 50 mVpp | | ≤ 50 mVpp |
| Hold up time @ In (Uin 120 / 230 Vac) | >12 ms / >20 ms | | >12 ms / >20 ms |
| Overload / short circuit protections | hiccup at the overload limit with auto reset / over temperature protection | | |
| Status display | "DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED | | |
| Alarm contact threshold | 21.6 Vdc | | 43.2 Vdc |
| Parallel connection | possible | | possible |
| Redundant parallel connection | factory provided with internal ORing diode | | factory provided with internal ORing diode |
| GENERAL TECHNICAL DATA | >92% / >92% | | >92% / >92% |
| Efficiency (Uin 120 / 230 Vac) | 42 W / 42 W | | 42 W / 42 W |
| Dissipated power (Uin 120 / 230 Vac) | -20...+60°C, with derating over 45°C / over temperature protection (3) | | |
| Operating temperature range | 3 kVAc / 60 s SELV output | | |
| Input/output isolation | 1.5 kVAc / 60 s | | |
| Input/ground isolation | 0.5 kVAc / 60 s | | |
| Output/ground isolation | EN50178, EN61558, EN60950, IEC950, UL508 | | |
| Standard/approvals | EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 | | |
| EMC Standards | >500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F | | |
| MTBF @ 25°C @ nominal ratings | II / 2 | | |
| Overvoltage category/Pollution degree | IP 20 IEC 529, EN60529 | | |
| Protection degree | 4 and 6 mm² fixed screw type | | |
| Connection terminal | aluminium | | |
| Housing material | 1,3 kg (45.89 oz) | | |
| Approx. weight | vertical on rail, allow 10 mm spacing between adjacent components | | |
| Mounting information | | | |
| MOUNTING ACCESSORIES | PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB | | |
| Mounting rail type according to IEC60715/TH35-7.5 | - | | |
| Mounting rail type according to IEC60715/G32 | - | | |