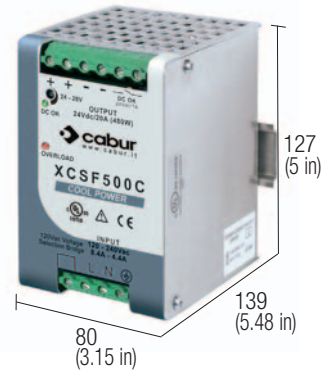


# Single-phase switching power supply 120-230 Vac output power 500 W

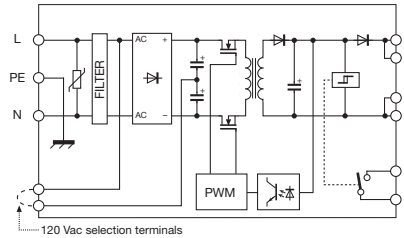
- Single-phase input 120 and 230 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Compact dimensions
- Suitable for applications in SELV and PELV circuits
- 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		CSF500C	
Output 12...15 Vdc 40 A			-
Output 48 Vdc 10 A redundant version			CSF500D
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	<b>24 Vdc</b>		<b>48 Vdc</b>
Output rated voltage	24...28 Vdc		45...55 Vdc
Output adjustable range	<b>20 A @ 45°C (3)</b>		<b>10 A @ 45°C (3)</b>
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	-		