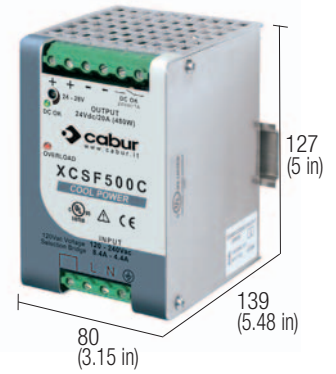


# Single-phase switching power supply 120-230 Vac output power 500 W

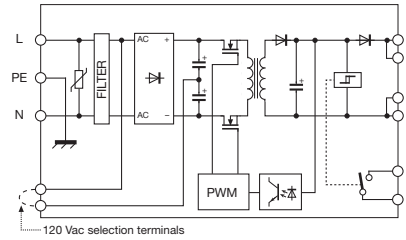
- Single-phase input 120 and 230 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Compact dimensions
- Suitable for applications in SELV and PELV circuits
- 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			
<b>INPUT TECHNICAL DATA</b>			
Input rated voltage	120-230 Vac (range 90...132 Vac / 185...264 Vac) (2)		
Frequency	47...63 Hz		
Current @ nominal Iout (Uin 120 / 230 Vac)	4.1 A / 2 A ± 10%		
Inrush peak current	< 25 A with electronic limiter		
Power factor	> 0.75 with PFC		
Internal protection fuse	-		
External protection on AC line	circuit breaker: 16 A C characteristic - fuse: T 15 A		
<b>OUTPUT TECHNICAL DATA</b>			
Output rated voltage	<b>24 Vdc</b>		<b>48 Vdc</b>
Output adjustable range	24...28 Vdc		45...55 Vdc
Continuous current	<b>20 A @ 45°C (3)</b>		<b>10 A @ 45°C (3)</b>
Overload limit	30 A for >5 s with Uout >90% Un (4)		15 A for >5 s 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
<b>GENERAL TECHNICAL DATA</b>			
Efficiency (Uin 120 / 230 Vac)	>92% / >92%		>92% / >92%
Dissipated power (Uin 120 / 230 Vac)	42 W / 42 W		42 W / 42 W
Operating temperature range	-20...+60°C, with derating over 45°C / over temperature protection (3)		
Input/output isolation	3 kVac / 60 s SELV output		
Input/ground isolation	1.5 kVac / 60 s		
Output/ground isolation	0.5 kVac / 60 s		
Standard/approvals	EN50178, EN61558, EN60950, IEC950, UL508		
EMC Standards	EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11		
MTBF @ 25°C @ nominal ratings	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F		
Overvoltage category/Pollution degree	II / 2		
Protection degree	IP 20 IEC 529, EN60529		
Connection terminal	4 and 6 mm² fixed screw type		
Housing material	aluminium		
Approx. weight	1,3 kg (45.89 oz)		
Mounting information	vertical on rail, allow 10 mm spacing between adjacent components		
<b>MOUNTING ACCESSORIES</b>			
Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB		
Mounting rail type according to IEC60715/G32	-		