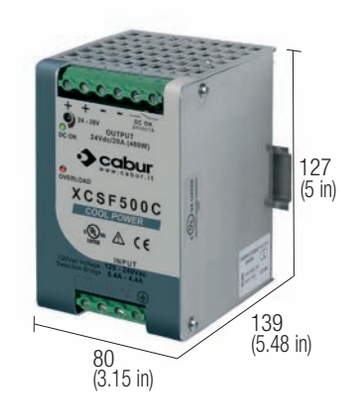
Single-phase switching power supply 120-230 Vac output power 500 W

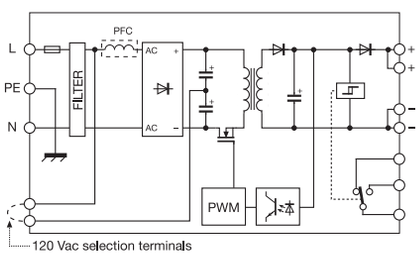
- Single-phase input 120 and 230 Vac
- Short circuit, overload, over temperature, input and ouput overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Compact dimensions
- Suitable for applications in SELV and PELV circuits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



NOTES

The depth dimension includes the DIN rail clamp.
(2) Double input selectable with external jumper, DC supply allow only between 300 and 350 Vdc
(3) Over 50°C (122°F) apply a derating: C version: -0.5 A/°C; D version: -0.25 A/°C.
(4) Overload and short circuit current depends on the total line resistance.
(5) "Cool Power" version with threshold alarm and "Overload" LED available from October

BLOCK DIAGRAM



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			**CSF500D**
INPUT TECHNICAL DATA			
Input rated voltage	**120–230 Vac** (range 90…132 Vac / 185…264 Vac / 300...350 Vdc) (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		
OUTPUT TECHNICAL DATA			
Output rated voltage	**24 Vdc**		**48 Vdc**
Output adjustable range	24...28 Vdc		45…55 Vdc
Continuous current	**20 A** @ 50°C (3)		**10 A** @ 50°C (3)
Overload limit	30 A for >5 s with Uout >Un x 0.9 (4)		15 A for >5 s with Uout >Un x 0.9 (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 (5)		
Alarm contact threshold	21.6 Vdc (5)		43.2 Vdc (5)
Parallel connection	possible		possible
Redundant parallel connection	factory provided with internal ORing diode		factory provided with internal ORing diode
GENERAL TECHNICAL DATA			
Efficiency (Uin 120 / 230 Vac)	>90% / >92%		>90% / >92%
Dissipated power (Uin 120 / 230 Vac)	55 W / 43 W		55 W / 43 W
Operating temperature range	–20...+60°C, with derating over 50°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 20 mm spacing between adjacent components		
MOUNTING ACCESSORIES			
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	—		