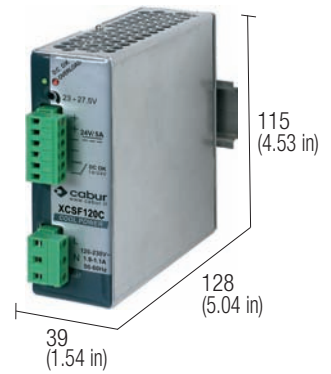


Single-phase switching power supply 120-230 Vac output power 120 W

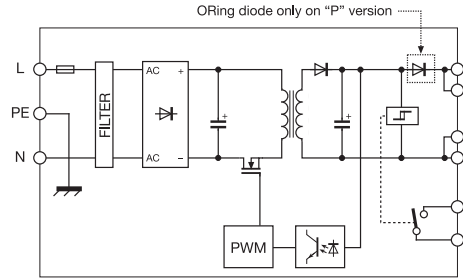
- Single-phase input 90...264 Vac and DC 100...370 Vdc
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Failure contact for Uout -10%
- Compact dimensions
- 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 50°C (122°F) apply a derating $-0.1 \text{ A}/^\circ\text{C}$, max 60°C
- (4) Overload and short circuit current depends on the total line resistance.

BLOCK DIAGRAM



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

Cod. XCSF120C	Cod. XCSF120CP	Cod. XCSF120B	Cod. XCSF120D
CSF120C			
	CSF120CP		
		CSF120B	
			CSF120D

INPUT TECHNICAL DATA

Input rated voltage	120-230 Vac (range 90...264 Vac / 100...370 Vdc) (2)
Frequency	47...63 Hz
Current @ nominal Iout (Uin 120 / 230 Vac)	1.9 A / 1.1 A \pm 10%
Inrush peak current	< 20 A
Power factor	> 0.65
Internal protection fuse	T 3.15 A replaceable
External protection on AC line	circuit breaker: 4 A - C characteristic - fuse: T 4 A

OUTPUT TECHNICAL DATA

	24 Vdc	12...15 Vdc	48 Vdc
Output rated voltage	23...27.5 Vdc	12...15 Vdc	45...55 Vdc
Output adjustable range			
Continuous current	5 A @ 50°C (3)	7 A @ 50°C (3)	2.5 A @ 50°C (3)
Overload limit	8 A for >30 s with Uout > Un x 0.9 (4)	8 A for >30 s with Uout > Un x 0.9 (4)	8 A for >30 s with Uout > Un x 0.9 (4)
Short circuit peak current	15 A per 50 ms (4)	15 A per 50 ms (4)	7.5 A per 50 ms (4)
Load regulation	< 1%	< 1%	< 1%
Ripple @ nominal ratings	\leq 30 mVpp	\leq 40 mVpp	\leq 30 mVpp
Hold up time @ In (Uin 120 / 230 Vac)	>17 ms / >72 ms	>24 ms / >80 ms	>16 ms / >81 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	<10.8 Vdc	<43.2 Vdc
Parallel connection	possible	possible	possible
Redundant parallel connection	possible with external ORing diode	factory provided with internal ORing diode	possible with external ORing diode

GENERAL TECHNICAL DATA

Efficiency (Uin 120 / 230 Vac)	>86% / >90%	>85% / >89%	>86% / >90%
Dissipated power (Uin 120 / 230 Vac)	19 W / 13 W	21 W / 15 W	20 W / 13 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, UL60950		
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	2.5 mm ² pluggable screw type		
Housing material	aluminium		
Approx. weight	400 g (14.12 oz)		
Mounting information	vertical on rail, allow 10 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	—