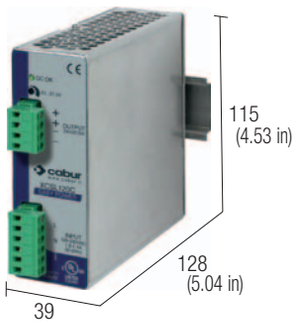
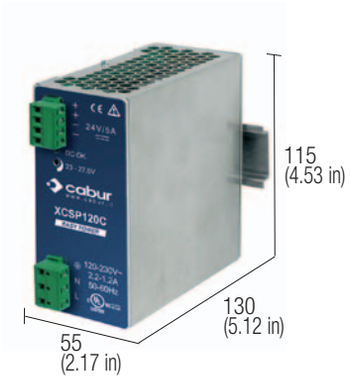
Single-phase switching power supply 120-230 Vac output power 120 W

- Single-phase input 90…264 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- Suitable in civil automation and general applications in the installation of systems
- Suitable for applications in SELV and PELV circuits

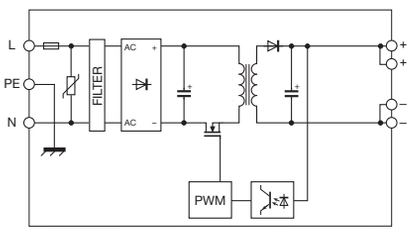




NOTES

The depth dimension includes the terminal blocks and the DIN clamp.
(3) Over 45°C (113°F) apply a derating of -0.08 A/°C
(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



Items sold until sell-out,
will be replaced by **CSL120C** series

VERSIONS	Cod. XCSL120C	Cod. XCSP120C
Output 24 Vdc 5 A	**CSL120C**	**CSP120C**
Output 24 Vdc 5 A		

INPUT TECHNICAL DATA	
Input rated voltage	**120–230 Vac** (range 90…264 Vac)
Frequency	47...63 Hz
Current @ nominal Iout (Uin 120 /230 Vac)	1.9 A / 1.1 A ± 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		
Output rated voltage	**24 Vdc**	**24 Vdc**
Output adjustable range	23...27.5 Vdc	23...27.5 Vdc
Continuous current	**5 A** @ 45°C (3)	**5 A** @ 45°C (3)
Overload limit	8 A per >30 s con Uout > 90% Un (4)	>6 A (4)
Short circuit peak current	13 A per 50 ms (4)	—
Load regulation	< 1%	< 1%
Ripple @ nominal ratings	30 mVpp	≤ 40 mVpp
Hold up time @ In (Uin 120 / 230 Vac)	>17 ms / >72 ms	>10 ms / >20 ms
Overload / short circuit protections	hiccup at the overload limit with auto reset / over temperature protection	
Status display	"DC OK" green LED	
Alarm contact threshold	—	
Parallel connection	possible	
Redundant parallel connection	possible with external ORing diode	

GENERAL TECHNICAL DATA		
Efficiency (Uin 120 / 230 Vac)	>86% / >90%	>86% / >90%
Dissipated power (Uin 120 / 230 Vac)	19 W / 13 W	19 W / 13 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	>400'000 h acc. to SN 29500 / >100'000 h acc. to MIL Std. HDBK 217F	
Overvoltage category/Pollution degree	II / 2	
Protection degree	IP 20 IEC 529, EN60529	
Connection terminal	2.5 mm² pluggable screw type	
Housing material	aluminium and stainless steel	
Approx. weight	400 g (14.10 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	—