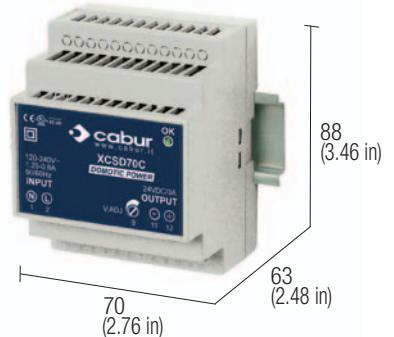


Single-phase switching power supply 120-230 Vac output power 70 W

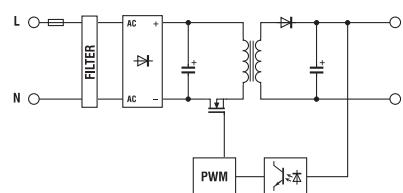
- Single-phase input 90...264 Vac and DC 100...345 Vdc
- Short circuit, overload, over temperature, input overvoltage protections
- Isolation Class 2, no grounding needed
- Compact dimensions
- Suitable for applications in SELV and PELV circuits



NOTES

The depth dimension includes the DIN rail 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: C version: $-0.15 \text{ A}/^\circ\text{C}$.
(4) Overload and short circuit current depends on the total line resistance.

BLOCK DIAGRAM



VERSIONS

	Cod. XCS70C			
Output 24 Vdc 3 A	CSD70C	-	-	-
Output 24 Vdc 3 A redundant version		-	-	-
Output 12...15 Vdc 5...4 A		-	-	-
Output 48 Vdc 1.5 A		-	-	-

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)	1.25 A / 0.8 A $\pm 10\%$
Inrush peak current	< 15 A
Power factor	> 0.6
Internal protection fuse	T 2 A not replaceable
External protection on AC line	circuit breaker: 4 A C characteristic - fuse: T 3.15 A

OUTPUT TECHNICAL DATA

Output rated voltage	24 Vdc			
Output adjustable range	24...27.5 Vdc			
Continuous current	3 A @ 55°C (3)			
Overload limit	4 A (4)			
Short circuit peak current	—			
Load regulation	< 1%			
Ripple @ nominal ratings	$\leq 60 \text{ mVpp}$			
Hold up time @ In (Uin 120 / 230 Vac)	>15 ms / >30 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 possible with external ORing diode			
Redundant parallel connection				

GENERAL TECHNICAL DATA

Efficiency (Uin 120 / 230 Vac)	>87% / >89%			
Dissipated power (Uin 120 / 230 Vac)	10.8 W / 8.9 W			
Operating temperature range	$-20...+60^\circ\text{C}$, with derating over 55°C (3)			
Input/output isolation	3 kVac / 60 s SELV output			
Input/ground isolation	class 2 without PE connection			
Output/ground isolation	class 2 without PE connection			
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	>750'000 h acc. to SN 29500 / >250'000 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 fixed screw type			
Housing material	UL94V-0 plastic material			
Approx. weight	250 g (8.82 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	—