Single-phase switching power supply 120-230 Vac output power 30 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



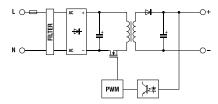


BLOCK DIAGRAM

NOTES

The depth dimension includes the DIN rail clamp.

- (2) Over 50°C (122°F) apply a derating: C and F versions: -0.03 A/°C; E version: -0.08...-0.04 A/°C.
- (3) Overload and short circuit current depends on the total line resistance.
- (4) Output current depends on the output voltage: 3.3A @ 5Vdc, 2A @ 9Vdc, 2.2A @ 12Vdc, 1.5A @ 15Vdc.



VERSIONS	Cod. XCSD30C	Cod. XCSD30E	Cod. XCSD30F
Dutput 24 Vdc 1.2 A	CSD30C		
Dutput 24 Vdc 1.2 A redundant version		-	
Dutput 515 Vdc 3.31.5 A		CSD30E	
Dutput ±12±15 Vdc 0.6 A			CSD30F
INPUT TECHNICAL DATA			
nput rated voltage	120–23	30 Vac (range 90264 Vac / 100345 Vdc)	
Frequency	4763 Hz		
Current @ nominal lout (Uin 120 /230 Vac)	0.55 A / 0.28 A ± 10%	0.45 A / 0.25 A ± 10%	0.4 A / 0.2 A ± 10%
Inrush peak current	< 13 A	< 13 A	< 13 A
Power factor		> 0.6	•
nternal protection fuse	T 2 A replaceable		
External protection on AC line	circuit breaker: 3 A - C characteristic - fuse: T 3.15 A		
OUTPUT TECHNICAL DATA			
Dutput rated voltage	24 Vdc ± 1%	515 Vdc	±12±15 Vdc
Output adjustable range	-	515 Vdc	±12±15 Vdc
Continuous current	1.2 A @ 50°C (2)	3.31.5 A @ 50°C (2)(4)	2x0.6 A @ 50°C (2)
Overload limit	1.6 (3)	4 A (3)	>2x0.8 A (3)
Short circuit peak current			
_oad regulation	< 1%	< 1%	< 1%
Ripple @ nominal ratings	$\leq 50 \text{ mVpp}$	≤ 50 mVpp	≤ 50 mVpp
Hold up time @ In (Uin 120 / 230 Vac)	>30 ms / >60 ms	>50 ms / >100 ms	>50 ms / >100 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	possible
Redundant parallel connection	possible with external ORing diode	possible with external ORing diode	possible with external ORing diode
GENERAL TECHNICAL DATA		diddo	diodo
Efficiency (Uin 120 / 230 Vac)	>85% / >87%	>87% / >89%	>87% / >89%
Dissipated power (Uin 120 / 230 Vac)	5.2 W / 4.5 W	4.5 W / 3.7 W	4.5 W / 3.7 W
Derating temperature range	$-20+60^{\circ}$ C, with derating over 50°C / over temperature protection (2)		
nput/output isolation	3 KVac / 60 s SELV output		
nput/ground isolation	class 2 without PE connection		
Dutput/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		
Dvervoltage category/Pollution degree			
Protection degree	IP 20 IEC 529, EN60529		
Connection terminal	2.5 mm ² fixed screw type		
Housing material	UL94V-0 plastic material		
Approx. weight	200 q (7.06 oz)		
Mounting information	vertical on rail, allow 10 mm spacing between adjacent components		
MOUNTING ACCESSORIES			
Mounting rail type according to IEC60715/TH35-7.5	00/20	3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	
Mounting rail type according to IEC60715/1835-7.5	FN/3/A0/FN/3/A0/LD, FN/3/A3/LD		
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Modular switching power supply GSD series

DOMOTIC POWER

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XCSD50B OMOTIC POWER DC/3.5A

Single phase switching power supplies with output power up to 70W for civil and industrial automation applications.

The housings have the standard dimensions for installation in DIN modular panels, and are optimized for the deployment in the field of building automation. The high performance and compact size make them an excellent solution for low-depth electrical panels.

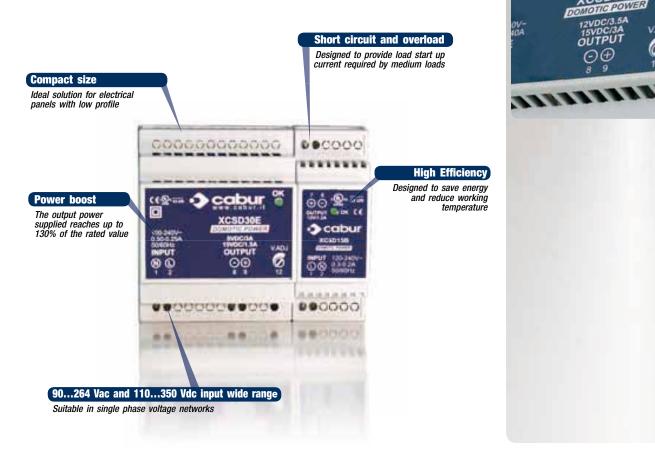
The high efficiency and low dissipated power save energy and increase the life of the components.

Suggested uses

- Applications in industrial automation ٠
- Applications in civil automation
- General applications in systems fit into small remote panels

Main features

- The 90...264 Vac and 110...370 Vdc input makes them suitable for use on all power supply lines.
- These power supplies are Insulation Class 2, thus they don't require grounding, which reduces costs and times during installation into remote panels, surveillance and monitoring systems.
- Their high efficiency reduces energy consumption and working temperature and allows their use in small panels.
- Their backup power allows the supply of continuous current at least +50% above the rated value ensuring safety and reliability.
- Dimensioned power supply and surge protection supplying breakaway starting currents 150% above the rated value required by heavy loads.
- Thermal protection prevents faults caused by prolonged overload at high ambient temperatures.
- Their internal components' high efficiency and excellent ventilation offer small dimensions and IP20 protection against accidental contacts in compliance with IEC529.



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