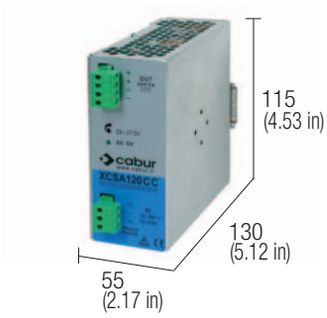
DC/DC Insulated converters output power 120 W

- DC wide range input
- Short circuit, overload, over temperature protection
- Compact design



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NOTES

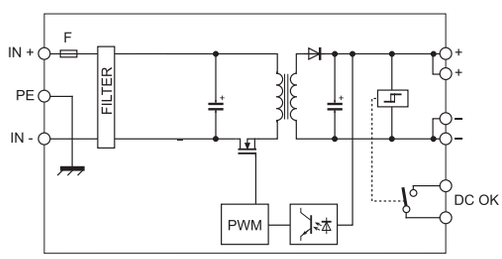
The depth dimension includes the terminal blocks and the DIN clamp.

(1) Inrush current is measured with input supplied by a battery; the current peak vary depending on the internal impedance of the current source and depending on cables and connections resistance.

(2) According to EN60950 insulation tests on input side must be made only with DC instruments.

(3) Version available upon request; for information call our sales department, local agent or representative

BLOCK DIAGRAM



VERSIONS	Cod. XCSA120DB	Cod. XCSA120DC
48 Vdc / 12 Vdc 8 A	**CSA120DB (3)**	
48 Vdc / 24 Vdc 5 A		**CSA120DC**

INPUT TECHNICAL DATA		
Input rated voltage	**48 Vdc** (range 36…72 Vdc)	**48 Vdc** (range 36…72 Vdc)
Current @ Iout max.	2.8 A ±10%	2.8 A ±10%
Inrush peak current	< 120A / < 2ms (1)	< 120A / < 2ms (1)
Standby power	<2 W @ 48 Vdc	<2 W @ 48 Vdc
Internal protection fuse	T 5 A replaceable	
External protection on AC line	≥6 A C characteristic	
Overvoltage input protection circuit	Passive varistor and active shutdown at 76 Vdc	

OUTPUT TECHNICAL DATA		
Output rated voltage	**12...15 Vdc**	**24 Vdc**
Output adjustable range	12...15 Vdc	22.5...27.5 Vdc
Continuous current	8 A @ 12 Vdc	5A @ 24 Vdc
Overload limit	12 A	6.5 A
Short circuit peak current	18 A per 300 ms	13 A per 300 ms
Load regulation	<0.5%	<0.5%
Ripple @ nominal ratings	≤ 100 mVpp	≤ 200 mVpp
Hold up time @ In	2 ms	4.5 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 110 Vdc)	>89%	>90%
Dissipated power (Uin 110 Vdc)	<17 W	<13 W
Operating temperature range	–20...+60°C, with derating over 50°C	
Input/output isolation	2.1 kVdc / 60s (2)	
Input/ground isolation	1.41 kVdc / 60s (2)	
Output/ground isolation	0.75 kVdc / 60s (2)	
Standard/approvals	IEC950, EN60950	
EMC Standards	EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-5-5, 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 mm² pluggable screw type	
Housing material	aluminium	
Approx. weight	550 g (19.40 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	—

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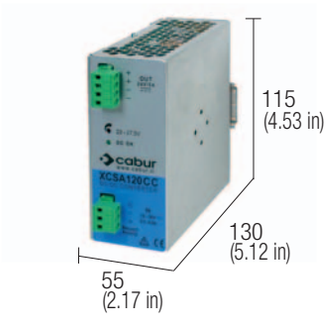


NOTES

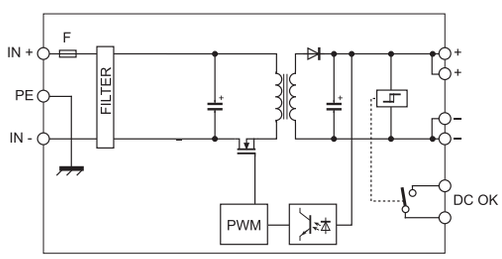
The depth dimension includes the terminal blocks and the DIN clamp.

(1) Inrush current is measured with input supplied by a battery; the current peak vary depending on the internal impedance of the current source and depending on cables and connections resistance.

(2) According to EN60950 insulation tests on input side must be made only with DC instruments.

(3) Version available upon request; for information call our sales department, local agent or representative.

BLOCK DIAGRAM



VERSIONS	Cod. XCSA120BC	Cod. XCSA120BD	Cod. XCSA120CB	Cod. XCSA120CC
12 Vdc / 24 Vdc 5 A	**CSA120BC (3)**			
12 Vdc / 48 Vdc 2.5 A		**CSA120BD (3)**		
24 Vdc / 12 Vdc 7 A			**CSA120CB**	
24 Vdc / 24 Vdc 5 A				**CSA120CC**
INPUT TECHNICAL DATA				
Input rated voltage	**12 Vdc** (range 10.5…18 Vdc)	**12 Vdc** (range 10.5…18 Vdc)	**24 Vdc** (range 18…36 Vdc)	**24 Vdc** (range 18…36 Vdc)
Current @ Iout max.	12 A ±10%	12 A ±10%	5.1 A ±10%	5.8 A ±10%
Inrush peak current	< 60A / < 2ms (1)	< 60A / < 2ms (1)	< 110A / < 2ms (1)	< 90A /< 2ms (1)
Standby power	<1.5 W @ 12 Vdc	<1.5 W @ 12 Vdc	<1 W @ 24 Vdc	<1.5 W @ 24 Vdc
Internal protection fuse	T 20 A replaceable		T 10 A replaceable	
External protection on AC line	≥25 A C characteristic		≥13 A C characteristic	
Overvoltage input protection circuit	Passive varistor and active shutdown at 19 Vdc		Passive varistor and active shutdown at 38 Vdc	
OUTPUT TECHNICAL DATA				
Output rated voltage	**24 Vdc**	**48 Vdc**	**12...15 Vdc**	**24 Vdc**
Output adjustable range	22.5...27.5 Vdc	45…55 Vdc	12...15 Vdc	22.5...27.5 Vdc
Continuous current	**5 A** @ 24 Vdc	**2.5 A** @ 48 Vdc	**7 A** @ 12 Vdc	**5 A** @ 24 Vdc
Overload limit	6.5 A	3.4 A	9.1 A	6.5 A
Short circuit peak current	12 A for 300 ms	5.8 A for 300 ms	15 A for 300 ms	12 A for 300 ms
Load regulation	<0.5%		<0.5%	<0.5%
Ripple @ nominal ratings	≤ 100 mVpp		≤ 100 mVpp	≤ 150 mVpp
Hold up time @ In	>1 ms		>2 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 110 Vdc)	> 83%	> 83%	>87%	>87%
Dissipated power (Uin 110 Vdc)	<25 W	<25 W	<16 W	<18 W
Operating temperature range	–20...+50°C			
Input/output isolation	2.1 kVdc / 60s (2)			
Input/ground isolation	1.41 kVdc / 60s (2)			
Output/ground isolation	0.75 kVdc / 60s (2)			
Standard/approvals	IEC950, EN60950			
EMC Standards	EN50081-1, EN50082-2, EN61000-3-2			
MTBF @ 25°C @ nominal ratings	>500'000 h secondo SN 29500 / >150'000 h secondo 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			
Approx. weight	550 g (19.40 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	—			