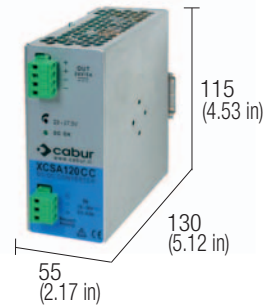


# DC/DC Insulated converters output power 120 W



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

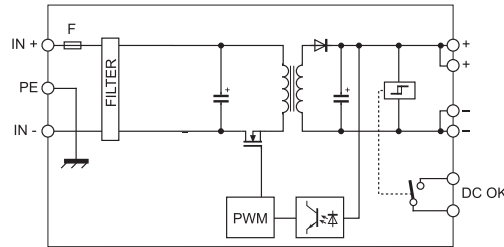


## NOTES

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

**48 Vdc / 12 Vdc 8 A**  
**48 Vdc / 24 Vdc 5 A**

**Cod. XCSA120DB**

**Cod. XCSA120DC**

**CSA120DB (3)**

**CSA120DC**

## INPUT TECHNICAL DATA

Input rated voltage  
Current @ Iout max.  
Inrush peak current  
Standby power  
Internal protection fuse  
External protection on AC line  
Overvoltage input protection circuit

**48 Vdc** (range 36...72 Vdc)  
2.8 A ±10%  
< 120A / < 2ms (1)  
<2 W @ 48 Vdc

**48 Vdc** (range 36...72 Vdc)  
2.8 A ±10%  
< 120A / < 2ms (1)  
<2 W @ 48 Vdc

T 5 A replaceable  
≥6 A C characteristic

Passive varistor and active shutdown at 76 Vdc

## OUTPUT TECHNICAL DATA

Output rated voltage  
Output adjustable range  
Continuous current  
Overload limit  
Short circuit peak current  
Load regulation  
Ripple @ nominal ratings  
Hold up time @ In  
Overload / short circuit protections  
Status display  
Alarm contact threshold  
Parallel connection

**12...15 Vdc**

**24 Vdc**

12...15 Vdc

22.5...27.5 Vdc

8 A @ 12 Vdc

5A @ 24 Vdc

12 A

6.5 A

18 A per 300 ms

13 A per 300 ms

<0.5%

<0.5%

≤ 100 mVpp

≤ 200 mVpp

2 ms

4.5 ms

hiccup at the overload limit with auto reset / over temperature protection

"DC OK" green LED

—  
possible

possible with external ORing diode

## GENERAL TECHNICAL DATA

Efficiency (Uin 110 Vdc)  
Dissipated power (Uin 110 Vdc)  
Operating temperature range  
Input/output isolation  
Input/ground isolation  
Output/ground isolation  
Standard/approvals  
EMC Standards  
MTBF @ 25°C @ nominal ratings  
Overvoltage category/Pollution degree  
Protection degree  
Connection terminal  
Housing material  
Approx. weight  
Mounting information

>89%

>90%

<17 W

<13 W

-20...+60°C, with derating over 50°C

2.1 kVdc / 60s (2)

1.41 kVdc / 60s (2)

0.75 kVdc / 60s (2)

IEC950, EN60950

EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-5-5, EN61000-4-6, EN61000-4-11

>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F

II / 2

IP 20 IEC 529, EN60529

2.5 mm<sup>2</sup> pluggable screw type

aluminium

550 g (19.40 oz)

vertical on rail, allow 10 mm spacing between adjacent components

## MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5  
Mounting rail type according to IEC60715/G32

**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**