INSTALLATION INSTRUCTION

RCM500E & XRCM300 Series

DC-DC Converter

OPERATION RANGE

Refer to the product rating label for input and output ratings.

INSTALLATION

Connection to the system with cables or with mating connectors (option K) is defined in product datasheet. Other installation methods may not meet the safety requirements. Do not open the converters, or the warranty will be invalidated.

CLEANING LIQUIDS AND PROTECTION DEGREE

This converter is not hermetically sealed. To avoid possible damage, any penetration of liquids shall be avoided.

This converter corresponds to protection degree IP 20.

CAUTIONS

This converter is a component, intended exclusively for inclusion by an industrial assembly process or by a professionally competent person. Installation must strictly follow the national safety regulations in respect of the enclosure, mounting, creepage distances, clearances, markings, and segregation requirements of the end-use application.



CAUTION – Hot Surfaces: The surface of the power supply can achieve high temperatures (T > +70°C).

ATTENTION – Surfaces chaudes : La surface de notre alimentation embarquée peut atteindre des températures très élevées (T > +70 °C). Le client final doit installer l'alimentation embarquée de sorte à garantir un fonctionnement en toute sécurité

PROTECTIVE EARTHING

There's a protective earth (PE) pin available on the input connector. Pin (PE) on input connector is reliably connected to the case. For safety reasons it is essential to connect this pin to the protective earth.

FUSING

Converters can be supplied either with or without incorporated non-replaceable fuse. When an internal fuse is assembled (option F present in part number), it will not trip at any continuous or transient conditions defined within EN50155, except if the converter is defective.

If an external fusing is to be used, it is recommended to follow the fuse rating specified in the table below:

Converter	Fuse Rating	Part Number
72RCM500E-24	20 A, 680 A^2sec, Fast Blow	BelFuse 0ADGC9200
110RCM500E-24	16 A, 410 A^2sec, Fast Blow	BelFuse 0ADGC9160
XRCM300-24	30 A, 2350 A^2sec, Fast Blow	BelFuse 0ADGC9300

SERVICING

The product(s) must be returned to the Authorized Bel Service Center for repair with a pre-assigned RMA number.

LIMITED WARRANTY

The company warrants each power supply of its manufacture for a period of 5 years from the date of original shipment. This warranty applies to defects in materials and workmanship that result in non-performance to published specification. The product(s) must be returned to the Authorized Service Center for repair with a pre-assigned RMA number.

The company assumes no liabilities for consequential damages of any kind through the use or misuse of its products by any user. No other obligations are expressed or implied.

Please note that the specifications, terms, and conditions stated are subject to change without notice.

INPUT AND OUTPUT CONNECTOR DETAILS

Refer to the product datasheet at belfuse.com

MECHANICAL DIMENSIONS AND MOUNTING REQUIREMENTS

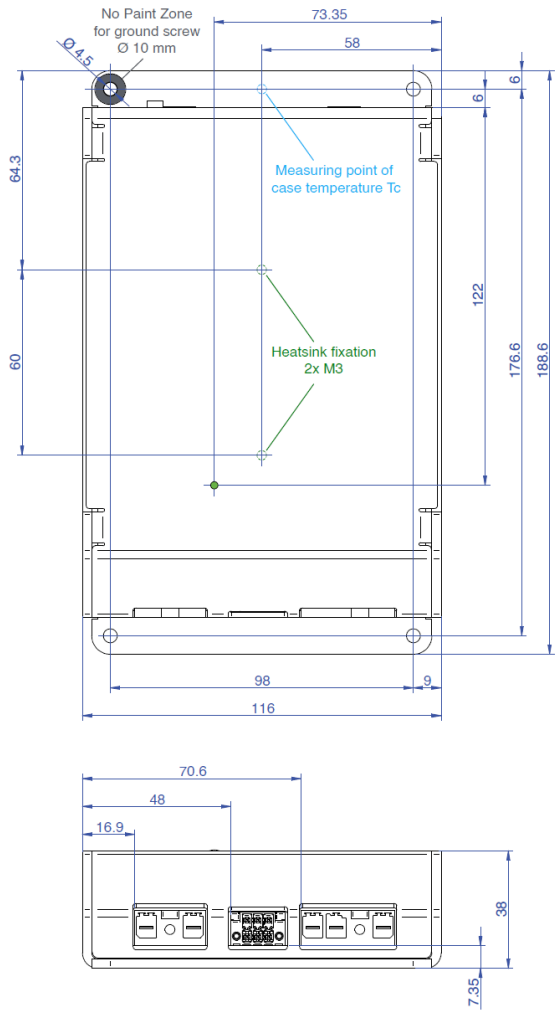


Figure 1) Dimensions of RCM500E or XRCM300 (K option)

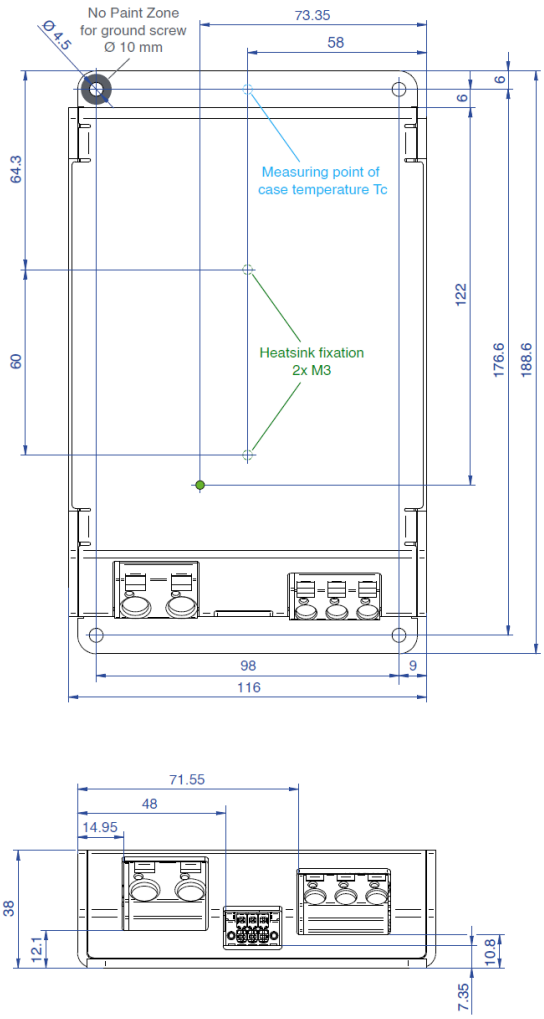


Figure 2) Dimensions of RCM500E or XRCM300 (standard model)

ALLOWED MOUNTING POSITION

Make sure that there is sufficient airflow available for convection cooling and that the temperature of the bottom plate is within the specified range. This should be verified by measuring the case temperature at the specified measuring point Tc when the converter is operated in the end-use application. Tc max defined in the data sheet should not be exceeded. Ensure that the failure of the converter does not result in a hazardous condition.

NUCLEAR AND MEDICAL APPLICATIONS

This product is not designed or intended for use as critical component in life support systems, equipment used in hazardous environments, or nuclear control systems.

TECHNICAL REVISIONS

The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.

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