

## DC/DC CONVERTERS

### PRESENTATION

The CRISTEC switch-mode DC/DC converters are dedicated to the power-supply of electric and electronic equipment.

They guarantee a high quality of the output voltage and ensure insulation. Thanks to their input voltage range they can be connected directly to a battery (can be used as a battery charger).

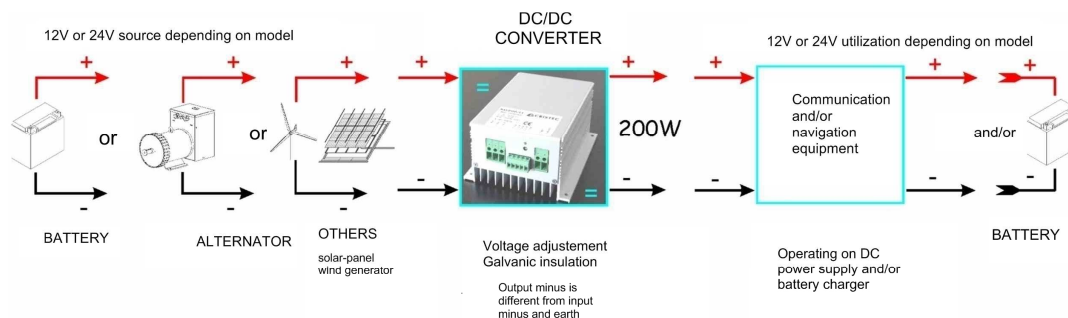
Their dimensions and weight allow an easy maintenance.

### GENERAL CHARACTERISTICS

- **Input voltage :**
  - 12Vdc : from 10 to 18Vdc
  - 24Vdc : from 18 to 36Vdc
  - 48Vdc : from 36 to 72Vdc
- **Input protection :** Against polarity reversal; EMI filter; by fuses
- **Output voltage :** 12 or 24 or 48Vdc nominal - Voltage adjustment by internal potentiometer
- **Output electric characteristics :**
  - Typical efficiency: 75% - Line regulation: 1% - Load regulation: 2% (10 to 100%)
- **Output protection :** Against short-circuit; against overload by current limitation; against overvoltage ( $V_{nom} + 25\%$ )
- **Output power :** 195W
- **Operating temperature :** from 0°C to +50°C
- **Storage temperature :** from -20°C to +85°C
- **Ventilation :** Natural
- **Dielectric rigidity :** Input/Output >1000Vdc
- **Standards :** Safety : EN 60950 ; EMC : EN 50081-2 ; CE marking
- **Presentation :** In closed box; fixing on screw terminals
- **Output voltage failure relay**
- **2 years warranty**



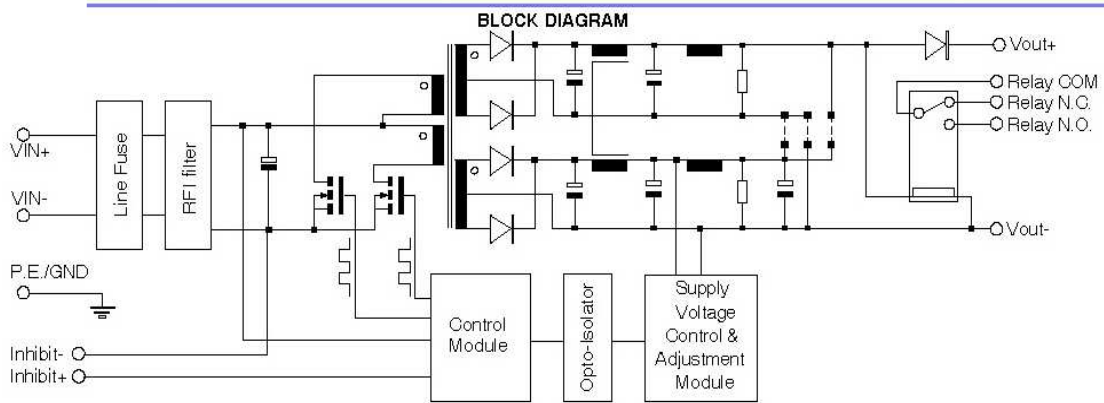
### TYPICAL INSTALLATION



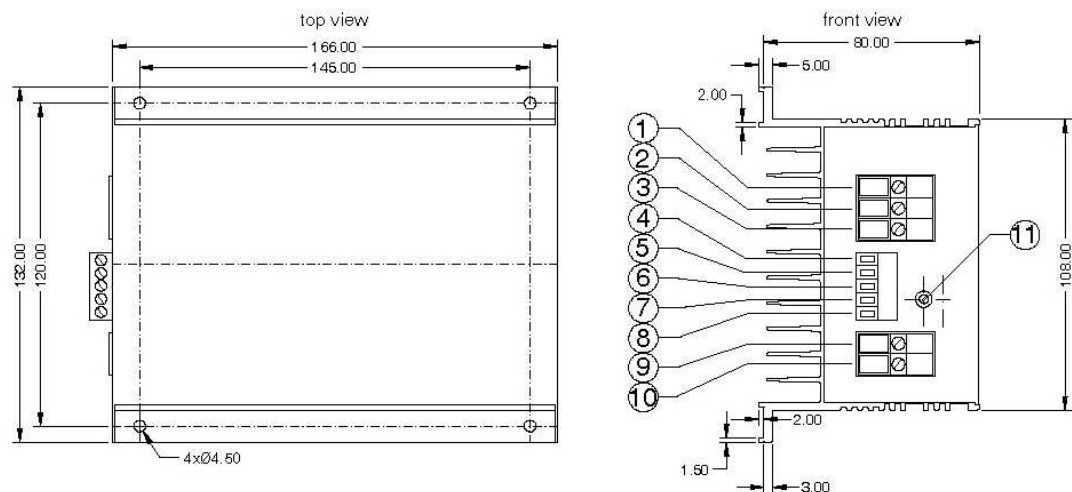
## RANGE

Item code	Description	Input voltage (Vdc)	Output voltage (Vdc)	Output current (A)	Max. output current (A)	Dimensions LxWxH (mm)
25000160DD	SD 203-I1-DD-AL	12	12	16	18	166x108x80
25000163DD	SD 206-I1-DD-AL	12	24	8	10	166x108x80
25000166DD	SD 208-I1-DD-AL	12	48	4	5	166x108x80
25000161DD	SD 203-I2-DD-AL	24	12	16	18	166x108x80
25000164DD	SD 206-I2-DD-AL	24	24	8	10	166x108x80
25000167DD	SD 208-I2-DD-AL	24	48	4	5	166x108x80
25000162DD	SD 203-I3-DD-AL	48	12	16	18	166x108x80
25000165DD	SD 206-I3-DD-AL	48	24	8	10	166x108x80
25000168DD	SD 208-I3-DD-AL	48	48	4	5	166x108x80

## DIAGRAMS



### DIMENSIONS AND CONNECTIONS



1)VIN+ 2)VIN- 3)P.E. 4)Inhibit+ 5)Inhibit- 6)Relay N.O. 7)Relay COM 8)Relay N.O. 9)VOUT- 10)VOUT+ 11)Vajust trimmer