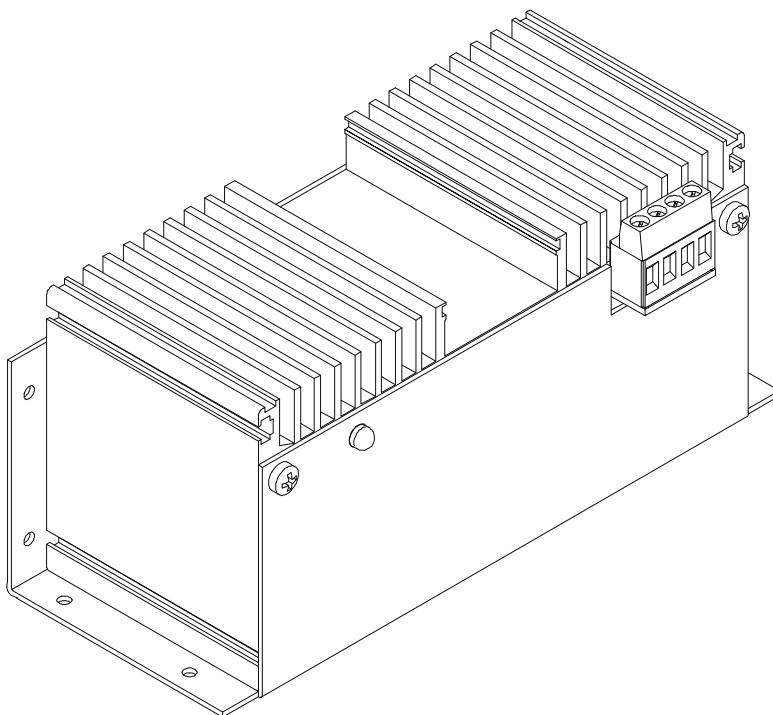




elektrosistem



## CB-312 DC-DC BATTERY CHARGER



### SWITCH MODE AUTOMATIC DC-DC BATTERY CHARGER FOR AUXILIARY BATTERY

It is extremely useful and safe on battery powered vehicles to separate the battery for traction from the battery controlling lights and signals. Further auxiliary battery and main battery do not have the same features in particular concerning discharging time. The use of the vehicle for a long time in the night, in rainy conditions at low speed and hard use of signalling with vehicle stopped are only some examples of the causes that may speed up discharging of the auxiliary battery. It is generally used a battery with higher amperage than needed to avoid those

situations in which a discharged battery results in the impossibility to use lighting and signalling. Further a battery charger with two outputs would be necessary to charge the two batteries according to their discharging percentage. CB-312 battery charger has been designed to be fitted on the vehicle's board to avoid those problems generally linked to traditional systems. This battery charger uses the energy from the main battery to recharge the auxiliary battery. The current supplied is at max. level when the battery is discharged and then is kept constant for some time; when the battery is almost charge, current gradually decreases proportionally to the voltage increase. When the battery is charge, the quantity of energy absorbed from the main battery is extremely low.

CB -312 guarantees galvanic isolation between the two batteries. Thanks to this DC-DC battery charger it is possible to use a battery charger having a unique output voltage which is also cheaper and an auxiliary battery with a higher amperage than needed is no longer necessary.

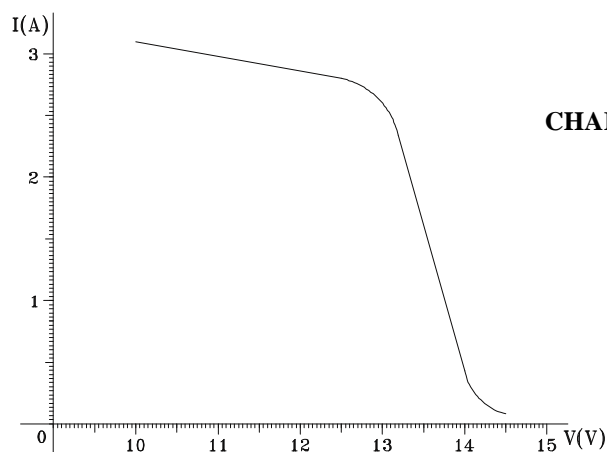
CB -312 is equipped with:

- \* Input reverse polarity protection
- \* Reverse polarity protection for the auxiliary battery
- \* Output short circuit protection
- \* Protection against voltage peaks and block in case voltage is out of the range
- \* Sensor detecting the battery

NEWS

## TECHNICAL SPECIFICATIONS

Operation frequency .....	100 - 130 KHZ
Input rated voltage .....	48 - 144 VDC
Input limit voltage .....	36 - 175 VDC
Output rated voltage .....	12 VDC
Output max. voltage .....	14 - 14.5 VDC
Rated charging current at 12V .....	3 A
Floating current .....	80 mA with VB 14.5 V



Technical specifications subject to changes without notice.

## DIMENSIONS AND FIXING HOLES

