



elektrosistem



## RESONANT HIGH FREQUENCY BATTERY CHARGER MODEL

# CB 250 HF CB 500 RI

### BATTERY CHARGER MOD. CB-250HF FOR LEAD-ACID BATTERIES

#### FEATURES

Charging is made with decreasing current till a voltage of about 30V, over this value an electronic adjustment of output voltage keeps it constant at 30V. In this way the battery can be left connected for a longer time than that necessary for its charging without being damaged.

The battery charger is equipped with two leds indicating the running mode:

- Red led: charging
- Green led: charging end (the led becomes gradually green till charge is completed).

A filter for electromagnetic emissions is fitted on the equipment, but in order to comply with electromagnetic compatibility directives the assembling of an external filter is necessary.

#### TECHNICAL SPECIFICATIONS

	<b>CB-250HF/10A</b>	<b>CB-250HF/16A</b>
- Input voltage 110V or 220V +/-10%		
- Adjustable output voltage		
- Charging current with input 220V and output 48V	5A	8A
- Charging current with input 220V and output 25V	10A	16A
- Charging current with input 220V and output 12.5V	14A	
- Running frequency 66 KHz		
- Mode indication by means of 2 leds		
- Running temperature 0 - 40 °C		
- Input delayed fuse 5A		
- Input and output galvanically insulated		
- Protection against polarity inversion by means of a fuse		
- Output protection against short circuit by means of a fuse		
- Cooling by means of forced ventilation		

#### MECHANICAL CLEARANCES

\*\*See CB-250HF for nickel-cadmium batteries



**BATTERY CHARGER MOD. CB-250HF FOR NICKEL-CADMIUM BATTERIES**

*FEATURES*

A microprocessor logic that controls and optimises charging has been applied to the equipment in order to guarantee a longer life of batteries. It is moreover possible to fit a thermal sensor directly on the battery in order to guarantee that charging occurs in the temperature range advised by manufacturers (5°C/40°C).

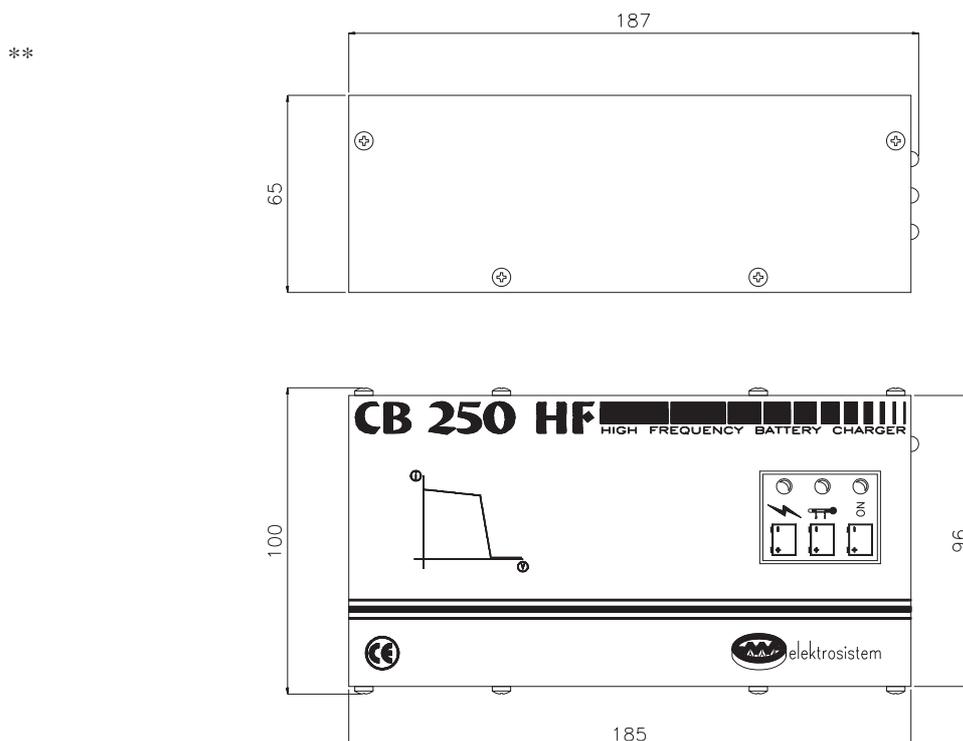
The battery charger is equipped with three leds indicating the running mode:

- Red led: charging.
- Yellow led: charging is interrupted, battery temperature is not correct.
- Green led: charging end (the led becomes gradually green till charging is completed).

*TECHNICAL FEATURES*

	<b>CB-250HF/10A</b>	<b>CB-250HF/16A</b>
- Input voltage 110V or 220V +/-10%		
- Output voltage for batteries at 24V		
- Charging current with input 220V and output 25V	10A	16A
- Operation frequency 66 KHz		
- Charging controlled by microprocessor		
- Mode indication by means of 3 leds		
- Operation temperature 0 - 40 °C		
- Battery temperature control by means of a probe (optional)		
- Input delayed fuse 5A		
- Input and output galvanically insulated		
- Protection against polarity reversal by means of a fuse		
- Cooling through forced ventilation		
- Filter for elimination of interferences to the network		

*MECHANICAL CLEARANCES*





**BATTERY CHARGER MOD. CB-500RI**

*FEATURES*

Charging is made with constant current. When charging end voltage has been reached, current decreases till the minimum value, keeping batteries at a constant voltage.

The battery charger is equipped with three leds indicating the running mode:

Red led: charging (this led becomes red as soon as batteries are connected to the battery charger even if the charger is not connected to the power supply).

Yellow led: charging beginning at constant voltage.

Green led: charging end (the led becomes gradually green till charging is completed).

A filter for electromagnetic emissions is fitted on the equipment, but in order to comply with electromagnetic compatibility directives the assembling of an external filter is necessary.

*TECHNICAL FEATURES*

	<b>CB-500RI/25A</b>	<b>CB-500RI/50A</b>
- Input voltage 110V or 220V +/-10%		
- Output voltage	12V/24V/36V/48V	12V/24V/36V/48V
- Charging current with input at 220V	25A/25A/12,5V/12,5V	50A/50A/25A/25A
- Charging end current	<1A	<1.5A
- Current supplied in short circuit	30A/30A/15A/15A	60A/60A/30A/30A
- Max. supplied power at 12 VDC	350W	700W
- Max. supplied power at 24 VDC	700W	1400W
- Max. supplied power at 36 VDC	525W	1050W
- Max. supplied power at 48 VDC	700W	1400W
- Operation frequency 50Khz		
- Efficiency 88%		
- Mode indication by means of 3 leds		
- Input and output galvanically insulated		
- Filter for elimination of interferences to the network		
- Protection against polarity reversal by means of a fuse		
- Cooling through forced ventilation		
- Operation temperature 0 - 40°C		
- Input fuse 6.3A		

*MECHANICAL CLEARANCES*

N.B. The data in brackets refer to the model CB-500RI/50A

