

# CBHF2 HIGH FREQUENCY CHARGER RANGE

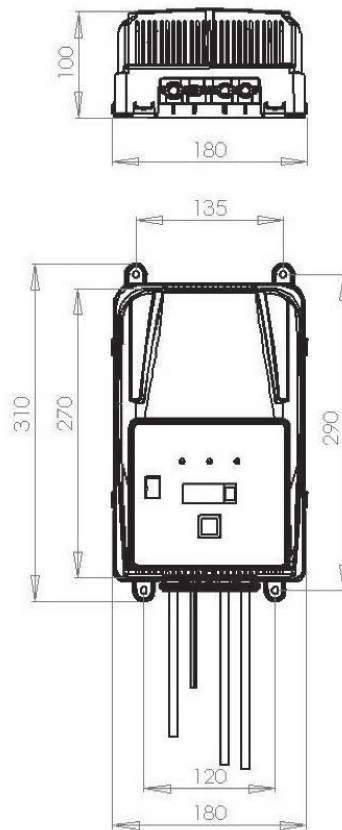


## TECHNICAL FEATURES

**CBHF2**

- High frequency system with advanced technology
- Charging process fully controlled by microprocessor
- Efficiency 90%
- Insensitive charge parameters of the +15% AC input line voltage variations
- Visualization on the LED display of the charging current battery voltage, charging time, and charge supplied in Ah and of the energy absorbed in KWh
- Facility to change the charging curve by means of dipswitches, choosing from 16 standard pre-programmed curves for lead-acid, Gel and AGM batteries. Any other curve available on request for all types of batteries (Li-on and Li-Po included)
- dv/dt adaptive charging profile available under request for wet lead-acid traction batteries.
- Facility to change the battery voltage and the charging current by means of dipswitches
- Charging process commences 'soft start' mode and automatically resets upon connection of a new battery
- Alphanumeric signals of possible faults
- Output ripple at maximum load lower than 100mV
- Compensation of the voltage drop on the connecting cables to the battery
- Charge cycle begins with batteries as low as 2v
- Protection against polarity inversions, short circuits, over-voltages or anomalies
- Thermal protection against overheating
- Equipped with NC (normally closed) relay for safety interlock connections (available only for on-board installation)
- Operating temperature: -10°C ÷ +45°C (14°F ÷ 113°F)
- Maximum relative humidity: 90%
- Self extinguishing case made of UL94-V0 ABS with double insulation
- Remote 3-LED (red, yellow and green) of recharge (optional) with:
  - 3-LED board (code: SKLED)
  - 3-LED 18mm diameter round remote indicator (code: LBF318EZ)
  - 3-LED 22x30mm squared remote indicator (code: LBF3QEZ)
- The information relevant to the last 30 charging cycles (duration, AH's delivered by the battery, voltage and error messages) can be downloaded through a cable and specific software is available  
Code: SPEDATACABLEHF

# Selection Table & Specifications



Dimensions in mm

Dimensions: 180x310x100 mm (7.08x12.02x3.93 in.) LxWxH  
 Weight: 2.2 Kg (4.85 lbs)  
 Protection: IP30

MODEL	BATTERY VOLTAGE	CHARGING CURRENT	BATTERY RANGE (5Hr Rate)		BATTERY RANGE (20Hr Rate)
			8-9 hours charging time	10-12 hours charging time	10-12 hours charging time
CBHF2 12-15	12V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2 12-20	12V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
CBHF2 12-25	12V	25A	120 ÷ 160	180 ÷ 258	220 ÷ 315
CBHF2 12-30	12V	30A	145 ÷ 180	200 ÷ 280	245 ÷ 350
CBHF2 24-15	24V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2 24-20	24V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
CBHF2 24-25	24V	25A	120 ÷ 160	180 ÷ 258	220 ÷ 315
CBHF2 24-30	24V	30A	145 ÷ 180	200 ÷ 280	245 ÷ 350
CBHF2 36-15	36V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2 36-20	36V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
CBHF2 36-25	36V	25A	120 ÷ 160	180 ÷ 258	220 ÷ 315
CBHF2 48-15	48V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2 48-20	48V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
<b>XP VERSION = EXTRA POWER</b>					
CBHF2-XP 12-35	12V	35A	180 ÷ 220	250 ÷ 320	305 ÷ 390
CBHF2-XP 12-40	12V	40A	220 ÷ 260	295 ÷ 360	360 ÷ 440
CBHF2-XP 24-35	24V	35A	180 ÷ 220	250 ÷ 320	305 ÷ 390
CBHF2-XP 24-40	24V	40A	220 ÷ 260	295 ÷ 360	360 ÷ 440
CBHF2-XP 36-30	36V	30A	145 ÷ 180	200 ÷ 280	245 ÷ 350

Input voltage: 230Vac +/-15% 50-60Hz (Europe/UK version)  
 115Vac +/- 15% 50-60Hz (USA and Canada version)  
 100Vac +/- 15% 50-60Hz (Japan version)