



CBHF2-PFC

Technical Features:

- **High frequency** system with advanced technology.
- **Charging process fully controlled by microprocessor.**
- **Efficiency > 90%.**
- Insensitive charge parameters related to input line voltage variations
- Visualization on a lit display of the charging current, of the battery voltage, of the charging time, of the charge supplied in Ah and of the energy absorbed in KWh.
- Possibility 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 type of batteries (Li-Ion and Li-Po included).
- dV/dt adaptive charging profile available under request for Wet lead-acid traction batteries.
- Possibility to change the battery voltage and the charging current by means of dipswitches.
- Charging process starting in the "soft start" mode and automatic reset upon connection of a new battery.
- Alphanumeric signals of possible anomalies.
- 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.
- Operating temperature: $-10^{\circ}\text{C} \div +45^{\circ}\text{C}$ ($14^{\circ}\text{F} \div 113^{\circ}\text{F}$).
- Maximum relative humidity: 90%.
- International Protection Rating IP30 with forced ventilation.
- Available under request the information relevant to the last 30 charging cycles (the duration of the charging cycle, the Ah's delivered by the battery, the voltage at the end of the charge and the possible error messages) can be downloaded in an excel file through a cable (code: SPEDATACABLEHF) and a specific software available.

STAND-ALONE use

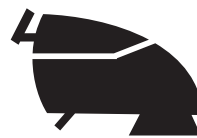
Lightweight
Compact
Customizable



Aerial Work Platform



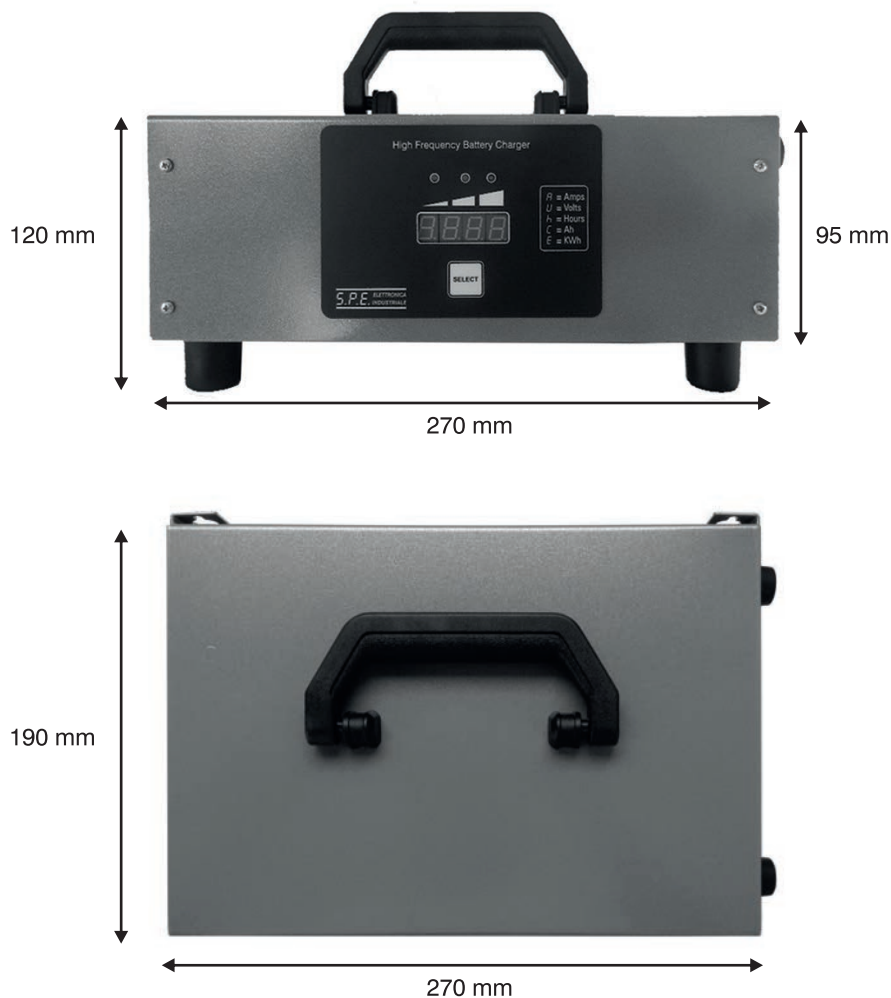
Electric Vehicles



Floor Machines



Materials Handling



Dimensions in mm

Dimensions: 270X190X120 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-PFC	12V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2-PFC	12V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
CBHF2-PFC	12V	25A	120 ÷ 160	180 ÷ 258	220 ÷ 315
CBHF2-PFC	12V	30A	145 ÷ 180	200 ÷ 280	245 ÷ 350
CBHF2-PFC	24V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2-PFC	24V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
CBHF2-PFC	24V	25A	120 ÷ 160	180 ÷ 258	220 ÷ 315
CBHF2-PFC	24V	30A	145 ÷ 180	200 ÷ 280	245 ÷ 350
CBHF2-PFC	36V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2-PFC	36V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240
CBHF2-PFC	36V	25A	120 ÷ 160	180 ÷ 258	220 ÷ 315
CBHF2-PFC	48V	15A	80 ÷ 110	100 ÷ 150	130 ÷ 185
CBHF2-PFC	48V	20A	95 ÷ 120	120 ÷ 195	150 ÷ 240

Input Voltage: Universal input 100-240 Vac ±15% 50/60 Hz