



High Frequency Chargers AECF-3 Series



DESCRIPTION

The high-frequency battery chargers AECF-3 are designed to charge batteries in the range of 12-160V.

A variety of charging algorithms are available, making the AECF-3 chargers suitable to recharge batteries of any type, in motive and stand-by applications, including Lithium-ion packs of the last generation.

These chargers can operate in fully automatic, stand-alone mode, or they can be interfaced with BMS modules of different types, including the BKS System, through PWM or CANBUS interface.

Thanks to their flexibility, the robust and compact design they are universally applicable. The installation on board of EVs is simplified by the compact size and the regular shape. The particular configuration of the ventilation system allows the installation of the unit in any position and orientation, without limitations in the air flow.

The power electronics operate at a frequency of 70kHz, and are based on semiconductors of the last generation.

An active electronic circuit protects the charger completely in case of: reverse polarity of the battery, wrong voltage of the battery, overload, over-temperature and short-circuit of the output.

TYPICAL APPLICATIONS

- **Electric Vehicles**
 - EV / HEV / PHEV
- **Material Handling Equipment**
 - Aerial Platforms
 - Cleaning Machines
 - Order-pickers

TECHNICAL FEATURES

- **Fully automatic operation**, controlled by microprocessor.
- High frequency control (70kHz), fully programmable charging curve.
- Enclosure Types:
 - Standard IP 20.
 - Optional IP 54.
- Control panel with LEDs and Audible alarms
- Suitable for on-board installation with permanent connection to the battery. Zero current draw from the battery when AC input is absent.
- Automatic data saving in case of black-out of the AC input, and automatic restart from the exact point of interruption.
- AC input 230 VAC $\pm 10\%$, 50-60Hz
On request 115 VAC $\pm 10\%$, 50-60Hz
On request 85-265 VAC, 50-60Hz
- Operating temperature: from -20°C to +50°C
- Efficiency >85%
- Precision on output current: $\pm 1\%$
- Precision on output voltage: $\pm 0,5\%$
- Dimensions: mm 302 x 185 x 186
Weight: 4,8 kg
- Warranty 5 years
- Conformity CE
Conformity to directives 73/23/CEE, 89/336/CEE e their modifications.

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STANDARD MODELS		
Model	PROGRAMMABLE VALUES	
	Nominal Voltage	Maximum Current
AECF-3A	24 V	50 A
AECF-3B	36 V	50 A
AECF-3C	48V	40 A
AECF-3D	72 / 80 / 84 V	25 A
AECF-3E	96 / 120 V	16 A

ACCESSORIES

- *Submersible thermal probe for the automatic adjustment of the gassing voltage.*
- *Integrated relay with free contact, for the indication of the status.
The relays can be programmed to indicate the connection of the AC input or the charge status.*
- *Remote LED indicator.*
- *Digital Display, integrated or remote.*