



3500 EVO



CAR 3,5 AMP  BIKE 0,9 AMP 

BC 3500 EVO is the new product in BC range with **two charging modes for car and bike batteries**, provided with multi-language LCD Display, digital voltmeter and dual function of battery charger and tester of the battery and the vehicle's charging system. BC 3500 EVO is ideal for the recovery, charge, desulfation, maintenance and analysis of all 12V car batteries and motorcycle batteries and it can be left always connected to the battery, with no risk and no need to disconnect the battery from the vehicle, keeping it fully charged during long periods of inactivity (even months). The battery charger offers **two specific charging modes: CAR MODE with a maximum charging current of 3.5 Amp and BIKE MODE**

with a maximum charging current of 0.9 Amp. The charging mode selection is completely automatic, with the **innovative EASY PLUG-IN SYSTEM: to change the charging mode it is enough to disconnect and reconnect the device to the power socket.** The display always shows the active charging mode. BC 3500 EVO runs a fully automatic 8-cycles charging algorithm, to recover deeply discharged batteries (from 1.25 volts) and to recharge, desulfate and maintain all 12V batteries (traditional, gel, sealed...) from 3 to 80 Ah (up to 150 Ah for maintenance). The automatic testing procedure, guided step-by-step by the instructions on the LCD display, includes an

analysis of the battery State of Charge, a battery Cranking Power test and a test of the vehicle's charging system (alternator/regulator). BC 3500 EVO does not produce sparks and it is protected against short circuit, reverse polarity, overcharging and overheating. The package includes a waterproof battery cable with eyelets (code STD2V), which can be left always installed on the vehicle, and a battery cable with insulated clamps (code 30AMPPZ). A universal 12/18 mm adapter (code ACC612V - optional) is available to recharge the battery from the cigarette lighter. The warranty is extended to 3 years.



MULTI-LANGUAGE SOFTWARE 

Automatic Test Procedure:

1. Battery SOC Test at rest
2. Battery Cranking Power Test
3. Alternator/Regulator Test



TECHNICAL DATA

Input Voltage
Charge Voltage
Charge Current
Charging Algorithm

Types of Batteries

Battery Capacity - CAR MODE
Battery Capacity - BIKE MODE

Operating Temperature
IP Class

Selectable Languages

BC 3500 EVO

220÷240 Vac, 50÷60 Hz
13.8 V / 14.4 V - nominal 12 V
3.5 A max (CAR MODE), 0.9 A max (BIKE MODE)
8 cycles, automatic (Initialization, Recovery, Soft Charge, Bulk Charge, Desulfation, Battery Analysis, Maintenance and Equalization)
12 V Lead Acid
(Traditional/Wet, Gel, MF, VRLA, AGM, Ca/Ca, etc.)
From 15 Ah to 80 Ah (Charge), up to 150 Ah (Maintenance)
From 3 Ah to 60 Ah (Charge), up to 100 Ah (Maintenance)
from -20° to +50°C
 Weatherproof - Protection against water splash IP44. Suitable for outdoor use

Italian, English, French and German (or Spanish) (starting from December 2013)



Featuring wall mounting system with fast dismounting

8 CYCLES CHARGING TECHNOLOGY

BC 3500 EVO is a digital battery charger managed by a **latest-generation microprocessor**, which is in charge of monitoring the battery parameters in real time and to execute a **new multi-cycle charging algorithm**:

1. **Initialization**: the device checks if one or more cells are shorted, in order to verify that the battery is in a proper condition to be recharged/recovered.
2. **Recovery**: if the battery is deep discharged (battery voltage starting from 1.25 V), the device tries to recover it, taking it back to a higher voltage.
3. **Soft Charge**: if the battery is in a condition of significant undercharge, the device provides a light pulsing current to the battery, to overcome this critical phase.
4. **Bulk Charge**: the device provides full current to the battery, recovering about 85-90% of the battery capacity.
5. **Desulfation / Absorption**: the device provides a "controlled overcharge" to recover the remaining 10-15% of the battery capacity, through the desulfation/recovery the lead-acid cells (for low or medium sulfation).
6. **Battery Analysis - End Cycle Test**: the device stops providing current to the battery for a short time, in order to verify whether the battery is able to retain the charge received. This test is periodically repeated during the Maintenance.
7. **Maintenance**: the device keeps the battery in the best charge conditions for very long periods (even months) during which your vehicle is left unused, without any possible drawback (battery overcharge, battery overheating, water and/or electrolyte loss, etc).
8. **Equalization**: every 30 days during long term maintenance, the device executes an equalization charge in order to balance the battery lead-acid cells, avoiding electrolyte stratification within the cells.

SAFETY AND PROTECTIONS

BC 3500 EVO features a series of **8 protections and active guard mechanisms** that make it easy to install and to use, without any risks even for users without expertise:

- **No interferences the vehicle's on board electronics** (control unit, ABS, GPS...)
- Protection from output lines short circuit, even for an indefinite time: **no sparks!**
- Protection from battery polarity inversion
- Protection from battery overcharge/overheating
- Thermal protection from overtemperature
- No need to disconnect the battery from your vehicle
- Very few gas development during the charge: no need to remove the battery plugs

Laboratory Tests ensure the manufacturing of products in conformity to the regulations in force on safety and electro-magnetic compatibility. Norms and Regulations: EN55014-1, EN55014-2, EN60335-1, EN60335-2-29, EN61000-3-2, EN61000-3-3.

BATTERY TYPES AND CAPACITY

BC 3500 EVO is specifically designed for charging and maintaining **all 12V lead-acid batteries** currently available on the market (traditional, VRLA, MF, AGM, GEL, Ca/Ca, etc). The device is addressed to recharge batteries with a capacity **from 3 to 80 Ah** (starting from 15 Ah with CAR MODE) and to **maintain batteries up to 150 Ah**.

EQUIPMENT & ADD-ONS

The package includes:

- the battery charger and tester **BC 3500 EVO** for long term battery maintenance, provided with a 220V power cable (2 meters long) and a battery output cable;
- **STD2V** waterproof battery cable with eyelets, which can be left always installed on board;
- **30AMPPZ** battery cable with clamps;
- according to the selected kit, the universal 12/18mm cigar socket adapter (cod. **ACC612V**) may be included;
- a copy of the User Manual.

LANGUAGE SELECTION

You can select the display language for BC 3500 EVO between Italian, French, English and German (or Spanish). To access the Language Selection menu, please follow the following procedure:

- Keeping BC 3500 EVO disconnected from the power outlet and the battery, connect the adapter with clamps to the charger and put in contact the red clamp with the black clamp (creating a short circuit).
- Connect BC 3500 EVO to the power outlet, still holding the clamps shorted. Every time the device is disconnected and reconnected to the power supply, the language changes, according to the following sequence:

Lingua: ITALIANO -> Langue: FRANÇAIS -> Language: ENGLISH -> Sprache: DEUTSCH or Idioma: ESPAÑOL

The selected option is kept in memory for future usage.