

BC JUNIOR 900



BC Junior 900 is the battery charger with 2 LEDs by BC Battery Controller, ideal for the recovery, charge, desulfation and maintenance of all motorcycle, atv, moped, snowmobile and jetski batteries. The battery charger is designed to stay 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). Moreover, it can be used for the slow charge and maintenance of car batteries.

BC Junior 900 delivers a maximum current of 0.9 Amps and runs a fully automatic 8-cycles charging algorithm, providing a complete solution to recover deeply discharged batteries (from 1.5 volts) and to recharge, desulfate and maintain all 12V batteries (traditional, gel, sealed...) from 1.2 to 45 Ah (up to 100 Ah for maintenance). A couple of LEDs indicate the charging cycle executed as well as any functioning error in real time. BC Junior 900 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.



TECHNICAL DATA

Input Voltage
Charge Voltage
Charge Current
Charging Algorithm

Types of Batteries

Battery Capacity

Operating Temperature
IP Class

BC JUNIOR 900

220÷240 Vac, 50÷60 Hz
13.8 V / 14.4 V - nominal 12 V
0.9 A max
8 cycles, automatic (Initialization, Recovery, Soft Charge, Bulk Charge, desulfation, Battery Analysis, Maintenance and Equalization)
12 V Lead Acid
(Traditional, Gel, MF, VRLA, AGM, Ca/ca, etc.)
From 1.2 Ah to 45 Ah (Charge),
up to 100 Ah (Maintenance)
from -20° to +50°C
Weatherproof - Protection against water splash IP44. Suitable for outdoor use



Featuring wall mounting system with fast dismounting

8 CYCLES CHARGING TECHNOLOGY

BC JUNIOR 900 is 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 1.5 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 JUNIOR 900 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 JUNIOR 900 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). BC JUNIOR 900 is addressed to recharge batteries with a capacity **from 1.2 to 45 Ah (up to 100 Ah for Maintenance only)**.

EQUIPMENT & ADD-ONS

The package includes:

- the battery charger **BC JUNIOR 900** 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.