



BC K900 is the ultimate and most innovativa battery charger, maintainer and reconditioner on the market, for all 6/12V batteries (traditional with liquid electrolyte and removable caps, MF, GEL, AGM, VRLA), with a specific program to recharge batteries directly from the 12V sockets installed on vehicles provided with a CAN-Bus system (like BMW motorcycles). BC K900 ensures the best battery performance and a longer battery life, thanks to a full automatic 8-cycles charging algorithm, which makes it ideal for the battery analysis, recovery (starting from 1.5 Volt) and reconditioning, recharging, desulfation and long term maintenance: the device can be left always connected to the battery for an indefinite time, as long as the vehicle is unused. With BC K900, you can choose between three different programs: for 6 Volt batteries, for 12 Volt batteries and for the direct charging through 12 Volt

sockets on CAN-Bus equipped motorcycles. Selecting the program desired is easy, it's enough to press a button. 3 LEDs, one for each program, always indicate the charging mode currently active, which is held in memory for later use. Recharging and maintaining a battery installed on a 12V-CAN-Bus-System equipped motorbike has never been so easy: the revolutionary BC KEY-LESS direct connection system allows to connect the charger directly to 12V DIN 4165 cigar sockets (installed on BMW motorcycles), without having to turn the key nor to turn on the instrument panel. BC K900 delivers a maximum current of 0.9 Amps and is suitable for all 6/12 Volt batteries 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 K900 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 K900

220±240 Vac, 50±60 Hz
 6.9 V / 7.2 V - nominal 6 V (6 Volt mode)
 13.8 V / 14.4 V - nominal 12 V (12 Volt mode)
 0.9 A max
 8 cycles, automatic (Initialization, Recovery, Soft Charge, Bulk Charge, desulfation, Battery Analysis, Maintenance and Equalization)
 6/12 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

HOW IT WORKS - THE PROGRAM SELECTION

1. Charging Program Selection - With just a finger!

Connect BC K900 to the 220V power outlet and select the right charging program for your battery by pushing the button "MODE". To the right of the button there are 3 LEDs, one for each charging program, which indicate the active charging mode (6V, 12V or 12V CAN-BUS). K900 keeps track of the last selected mode: if you use the device always with the same battery, it is not necessary to modify the program every time.

2. Recharging, Reconditioning and Maintenance - 100% automatic and complete

Once the right charging program for your battery is selected, just connect BC K900 to the battery to make the 8-steps full-automatic charging procedure start. BC K900 brings your battery to the maintenance phase, recovering it gently if necessary, giving it energy and power during the charging and desulfation steps and keeping it constantly under control, from the initial test to the end-cycle battery analysis.

8 CYCLES CHARGING TECHNOLOGY

BC K900 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 K900 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 K900 is specifically designed for charging and maintaining **all 6/12V lead-acid batteries** currently available on the market (traditional, VRLA, MF, AGM, GEL, Ca/Ca, etc). BC K900 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 and maintainer **BC K900** 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.