

BSC-2006 (2x3 Design)

Thank you for choosing one of our products.

Working with this battery charger, you will get the best technology on the market and a high quality product. Before using the charger the first time, please read the following instructions carefully.



Characteristics

- 6-bay charger can be used universally
- Automatic identification of Ni-Cd, Ni-MH, Li-ion and Li-Polymer batteries
- Extremely fast and safe charging of almost all accumulator types independently of each single channel
- All adapters for the popular two-way radios and scanners are available (Ask for our BATSTAR Adapter List)
- LED-Display
- Precise switch-off, no overcharge and overheating of the batteries
- New process for charging the batteries for a longer life cycle and durability of your batteries
- Identification of defective accumulators
- Robust aluminium case for professional operations

Technical Data

Part Number / Type	BSC-2006
For Battery Types	Ni-Cd / Ni-MH / Li-ion / Li-Poly
Input Power Supply	100-240 Volt AC
Output Power Supply	12 V / 7.0 A (DC)
Charging Rate	700 - 1000 mA
Operating Temperature	-10°C - 35°C (14°F ~ 95°F)
Dimensions (LxWxH)	365 x 270 x 43 mm
Weight	3115 g
Color	silver

Mode of Operation

In the first 15 seconds after inserting the battery into the charger, a test to detect the chemistry is carried out.

For this, a short charge in the form of a three-cycle (200 - 700 – 200 mA) is applied to generate a stress increase inside of the battery. Does this not happen, the battery is identified as “defective” and the LED starts to flash.

If the battery is not defective, the charging rate increases for the next 45 seconds to 700-1000 mA. The final charging rate within this range is defined by the internal resistance of the battery.

Each of the loading bays takes its charging rate of 700-1000 mA independently of the other directly from the main power source, because the bays are not connected in series.

Safety Timer

The charger works with minus Delta V cut-off for Ni-Cd and Ni-MH batteries and according to the voltage for Li-ion batteries (4.15 volt cut-off per cell / 8.3 volt cut-off for nominal 7.4 volt batteries).

In addition to the aforementioned attributes, the charger includes a Safety-Timer, which shutdown after 5.5 hours the charging process independent of other parameters.

After that the charger will be switching over to the modus” trickle charge”. At this juncture, a buffer current (10 sec. long) of 100 mA followed by a break of 60 seconds. This cyclical process will be repeating till taking out the battery from the charger.



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Operating the Charger

1. When the charger is connected to main power, the orange "PWR" light will light on. When the green "OK" -light will flash once - it indicates that the self-test of the charger is completed and you are ready to charge.
2. Ensure that correct battery adapter cup is installed.
3. Insert battery into charger. Red "CHG" LED will light up, indicating that the battery is charging normally. When the green "OK" light starts to glow, the battery is fully charged and ready for use. In "OK" mode, the charger will continue to apply trickle charge until the battery is removed.
4. A flashing red "CHG" light indicates that the battery is defective and should not be used anyway. Please dispose old and defective batteries properly.
5. To change the battery adapter cup, first UNPLUG THE CHARGER from the main power supply. Remove the two screws holding the adapter cup in place. Carefully pull adapter cup out and disengage the white connector on charger PCB. Connect desired new adapter cup and securely re-fasten both screws.

Charging Time

The charging time depends on different conditions, in particular temperature and the actual charging state of the battery. Besides the battery should always be charged within the best temperature between +10°C and +30°C.

Please Note:

Using the charger below a temperature range of 0°C the accumulator will not be fully charged, even if the charging time will be longer than normal.

Standard Charging Times

Battery Type	Capacity	Charging Time
Ni-Cd	550 / 650 / 750 mAh	1,0 hours
Ni-Cd	850 / 1000 mAh	1,0 - 1,5 hours
Ni-MH	1200 / 1400 mAh	1,5 - 2,0 hours
Ni-MH	1600 / 1800 / 1900 mAh	2,0 - 2,5 hours
Ni-MH	2000 / 2100 / 2200 mAh	2,5 - 3,0 hours
Li-ion	1600 / 1800 / 1900 mAh	2,0 - 2,5 hours
Li-ion	2000 / 2100 / 2200 mAh	2,5 - 3,0 hours
Li-ion	3000 / 4000 mAh	3,0 - 5,0 hours

Safety Instructions

- For indoor use only.
- Please make sure the battery pack is fitting the adapter cup correctly when start charging.
- Only for use with Ni-Cd, Ni-MH and Li-ion / Li-Poly chemistry batteries.
- Do not charge defective, damaged or leaking batteries.
- Charger MUST be unplugged from main power supply when changing battery adapter cups.
- Always unplug the charger from the main power supply, when no battery is charging.
- To prevent accidents or damage to charger, do not short-circuit the battery charger terminals.
- Clean with a soft dry cloth. Do not use water or solvent-based cleaners.



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