

4099 Configuration Toolbox for Mascot NiMH Battery Chargers



All Mascot NiMH battery chargers marked with this CBC symbol may be configured through the output cable using a toolkit consisting of a CBC module, a USB cable and Mascot config software for PC.



The CBC Toolkit is ideal for optimizing battery performance for a wide range of applications. There are 37 different parameter settings and 9 additional enable/disable functions available.

Key configuration / charge detection variables:

- dV levels in mV (minimum detection level approx. 1mV/cell)
- dT/dt detection level °C/minute
- NTC parameters (nominal value and β -value)
- Temperature limits (Hot, cold, charge pause ++)
- Charge currents
- Timers: dV mask timer to prevent premature -dV detection, Soft start timer, Top-off timer, Trickle timer and safety timer

| Index | Name | Value | Unit | Min | Max | μ C value |
|-------|-------------------------|-------|------|--------|-------|---------------|
| 9 | ModeFlags | 104 | | 0 | 511 | 104 |
| 25 | ChargeCurrentFastCharge | 1.991 | A | 0.218 | 2.445 | 203 |
| 26 | ChargeCurrentTrickle | 0.100 | A | -0.009 | 0.137 | 190 |
| 28 | StartTime | 120 | s | 1 | 600 | 120 |
| 29 | SafetyTime | 240 | min | 1 | 16383 | 240 |
| 30 | TopOffTime | | | | | |
| 49 | dVMaskTime | | | | | |

NTC resistor: ohm (25 °C)
 NTC beta:

Connected!

EoC methods and functions (enable/disable):

- dV
- dT/dt
- No EoC - Constant current Charger
- NTC mandatory. This will stop the charge cycle if NTC is missing or not working properly
- Read and/or write protected configuration

Read protect
 Write protect
 NTC required
 Pulse enabled
 Constant current
 Trickle low current

End of Charge
 -dV
 zero dV
 dT

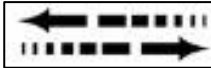
The CBC system is easy to set-up and connect

- Select Mascot standard to configure
- Connect the charger and set-up the communication
- Make the custom configurations
- Send the new parameter(s) to the charger

Included in the toolbox:

- Mascot CBC module (hardware interface)
- 3546 NiMH CBC Battery Charger
- 3743 NiMH CBC Battery Charger
- USB Cable for connecting to a PC
- Mascot Configuration Software
- Printed user guide and videos with user instructions

Notes

- It's possible to read the current configuration from the charger 
- Ordering information:
 For the CBC toolkit, use part no. 4099000040
 For additional modules, use part no. 4099000000



Configuration Tool Kit for Mascot CBC chargers

Content:
 Mascot Blueline 3546 6-12 NiMH Charger
 Mascot Blueline 3743 10-20 NiMH Charger
 Mascot Configuration Interface for Blueline. Part no.: 4099000000
 Mascot Configuration Software
 USB cable