

4099 Configuration Toolkit 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: 10 000 ohm (25 °C)
NTC beta: 3 950

Connected! Update

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

File: Read charger Write charger Connect charger
Load parameters Read HWID Send all Send all
Save to file Read all Send all

Connected!

Index	Name	Value	Unit	Min	Max	μ C value	Description
9	ModeFlags	72		0	511	104	On-Off flags
25	ChargeCurrentFastCharge	2.202	A	0.269	2.753	179	Current (DAC-value) in fast charge
26	ChargeCurrentSubstart	0.150	A	0.004	0.256	151	Current (DAC-value) in Soft Start
27	ChargeCurrentTrickle	0.100	A	0.004	0.231	102	Current (DAC-value) in trickle
29	StartTime	600	s	1	16383	600	Maximum
30	SafetyTime	1	min	1	16383	300	Maximum
31	TopOffTime						
50	dVMaskTime						

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