

4099 Configuration Toolkit for Mascot Lead Acid Battery Chargers



All Mascot Lead Acid 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 configuration software for PC.



The CBC Toolkit is ideal for optimizing battery performance for a wide range of applications. There are 22 different parameter settings and 7 additional enable/disable functions available.

Key configuration / charge detection variables:

- Charge voltages (If PTC is not used)
- Diode compensation level. Increase in voltage to compensate for diode in series
- Cut-off current level to go to float
- Temperature limits (Hot, cold, charge pause ++)
- Float pulse interval and time.
- Recharge voltage level
- Timers: Soft start timer, CV charge timer and Safety timer

SoftstartTime	1 800	s
ChargeTime	240	min
SafetyTime	4 320	min
BatteryVoltageMaintenanceDelta	1.03	V
NoPTC_DACBoost	14,702	V
NoPTC_DACMaint	13,678	V

Functions (enable/disable):

- Enable/Disable PTC if present
- Enable/Disable current pulses in float charge
- Float charge only. Full charge cycle using float voltage level only.
- PTC mandatory. This will stop the charge cycle if PTC is missing or not working properly
- Read and/or write protected configuration

- ☐ Read protect
- ☐ Write protect
- ☐ PTC required
- ☐ No PTC
- ☒ Suspend when cold
- ☐ Float charge only
- ☒ Pulsed float charge

The CBC system is easy to set-up and connect

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

Included in the toolbox:

- Mascot CBC module (hardware interface)
- 3546 12V LA Battery Charger
- 3743 24V LA Battery Charger
- USB Cable for connecting to a PC
- Mascot Configuration Software
- Printed user guide and videos with user instructions

Notes

1. It's possible to read the current configuration from the charger



2. Ordering information:

For the CBC toolkit, use part no. 4099000041

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 charges Host charger

Save to file Send all Send all Connected!

Index	Name	Value	Unit	Min.	Max.	µC value	Description
9	ModeFlags	0		0	511	104	On/Off flags
25	ChargeCurrentFastCharge	2.252	A	0.269	2.753	178	Current (DAC value) in fast charge
26	ChargeCurrentSoftstart	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
29	StartTime	600	s	1	16383	600	Maximal
30	SafetyTime	1	h	1	16383	300	Maximal
31	TopOffTime						
32	TopOffTime						

Content:

Mascot Blueline 3546 12V LA Charger

Mascot Blueline 3743 24V LA Charger

Mascot Interface Module for Blueline. Part no.: 4099000000

Mascot Interface Software

USB cable