

Charge-Check improves the battery longevity of rechargeable devices requiring a 5V USB charger. This can include mobile devices (cellular phones and tablets), rechargeable devices (blue-tooth wireless devices), and other 5V USB charging applications.

Charge-Check's purpose is to periodically “top-up” a device’s battery to minimize overcharging. For reference, overcharging (or trickle charging) is the act of charging a battery beyond its capacity, for extended and unnecessary periods of time. Once a charging cycle has started, *Charge-Check* will monitor the device and charge the battery until sufficiently “topped-up” (up to a maximum of 4 hours). At this point, it will suspend charging for a set length of time (be default 3 hours) before attempting to “top-up” the battery again. This is a recommended strategy because Lithium-ion batteries are proven to last longer when the battery’s charge percentage hovers consistently around 50-60%.



Charge-Check was intended for a number of different applications, meaning this default 3 hour timeout may not be appropriate for some devices. As a result, the user is able to configure the time allocations between “top-ups”, or disabling “top-ups” all together. The following will guide you through the advanced configuration feature of *Charge-Check*.

Time-Out Mode Configuration

The modes on *Charge-Check* give the user the ability to configure a timeout length between “top-ups” of 1 to 5 hours, based on their device charge time and usage levels. In “Single Charge” mode, any additional charges of the device will need to be manually restarted by pressing the black button on the *Charge-Check* unit.



Configuration of *Charge-Check* is completed using the black button located on the unit.

To select any of the available modes, follow these steps:

1. Press and hold the black button on the Charge-Check unit for the specified number of times according to the table below.
2. Hold down the black button for 10 seconds to confirm the changes.

MODE	SELECTION	ACTION
1 hour timeout	Press button once, followed by a 10 second hold	1 hr discharge between top-ups
2 hour timeout	Press button 2 times, followed by a 10 second hold	2 hr discharge between top-ups
3 hour timeout	Press button 3 times, followed by a 10 second hold	3 hr discharge between top-ups
4 hour timeout	Press button 4 times, followed by a 10 second hold	4 hr discharge between top-ups
5 hour timeout	Press button 5 times, followed by a 10 second hold	5 hr discharge between top-ups
Single Charge	Press button 6 times, followed by a 10 second hold	Charge device once, top-ups disabled

Advanced Charge-Check Settings

In addition to the standard modes, there are several advanced settings available on Charge-Check.

Day/Night Mode

By default, the LEDs will slowly pulse whenever the Charge-Check is charging. Since most users charge their devices overnight, or beside their beds, this mode makes it possible to disable, or enable, the LEDs during a charge.

To toggle between “Day Mode” and “Night Mode” you will need to follow these steps:

1. Ensure the Charge-Check is powered on.
2. Press the black button on the Charge-Check unit at least 7 times.
3. Hold down the black button for 10 seconds, until the LEDs begin flashing back and forth for several seconds, and continue holding the black button.

Once the LEDs start flashing, they will continue to flash until the black button has been released. This indicates that the “top-up” mode has not been modified and that the LEDs charging status has been changed.

Display Current Mode

This setting provides a way of visually verifying the current selected mode without having to reconfigure Charge-Check.

To “Display Current Mode” you will need to follow these steps:

1. Ensure the Charge-Check is powered on.
2. Hold down the Black Button on the Charge-Check unit for 10 seconds, until the LEDs begin flashing back and forth for several seconds, and continue holding the black button.

Once the LEDs stop flashing, the LEDs will then blink to display the current mode (i.e. 2 blinks would indicate 2 hour timeout mode).

Restore Factory Defaults

This setting provides a means of restoring the Charge-Check to its original settings (i.e. Day Mode with a 3 hour timeout).

To “Restore Factory Defaults” you will need to follow these steps:

1. Ensure the Charge-Check is powered off.
2. Press and hold the black button while connecting the Charge-Check unit to power.
3. Continue to hold the black button, until the LEDs begin flashing back and forth for several seconds, and continue holding the black button.

Once the LEDs stop flashing, the LEDs will then blink 3 times indicating that the unit has been restored to its default settings (i.e. Day Mode with a 3 hour timeout).