

# Charge-Check *Product/Green Sheet*

## Universal Plug-and-Play Battery Modulation Adapter

The Charge-Check is a consumer device that protects a mobile device or any other USB device with a lithium-ion battery from overcharging and battery bloating, which can lead to severe damage. It features LAVA's plug-and-play Continuously Active Battery Modulation (CABM), which is also found in LAVA's Enterprise u Series SimulCharge adapters.

Requiring no additional software to run, CABM monitors the mobile device as it charges. When the current slows (indicating the device is near a full charge) the adapter disconnects charging power to the mobile device. The mobile device can still communicate with the USB port but the mobile device's battery is allowed to discharge. The length of time between charging cycles can be configured using a black button on the top of the Charge-Check. The discharging time can be set between one and five hours. (The default is three.) CABM ensures the device's battery never overcharges, even if it is left plugged in 24/7. This modulation and overcharge protection helps to extend the lifespan of both the battery and device.

While designed for personal use, the lightweight and portable Charge-Check can also be used in applications in a 24-hour business environment, such as digital signage, information kiosks or to keep company tablets charged. The Charge-Check can also use a Fast Charger, provided the device being charged has the same capability.

The Charge-Check comes in a white plastic casing that protects the electronics from mild shocks and impacts, allowing it to be used in different implementations. It also ships with a Micro USB to USB-A cable. It features both these ports and the cable can be used in either of them. If the device being charged has a Micro USB port, then the cable is used in the USB-A port to connect it with the device. If the device charges via USB-C or a Lightning connector, the cable is used in the Charge-Check's Micro USB port with the USB-A connector plugging into the power source.

A second cable is required to plug into either the Micro USB port or the USB-A port (if the device doesn't have Micro USB). The Charge-Check can be used with either a 9-volt, 1.67-amp charger for Fast Charging or a standard 5-volt, 2-amp one. It is recommended to use the charging cable that came with the mobile device. A separate power supply is not included.

