

# Ride with the VC-OEM

## *Phone Charging Solution for Motorcycles*

### *Why Should You Use the VC-OEM on your Motorcycle?*

The VC-OEM charges your smartphone straight from your motorcycle, with no separate battery packs or charging breaks required. The only additional requirement for this system is a single mobile device mount, placed on the motorcycle dashboard to hold your smartphone. This integrates easily with the VC-OEM for accessible and convenient charging. This set-up also allows easy access to your smartphone functions like LTE data plans, GPS/navigation applications, media players, phone calls, and more to enhance your riding experience. You can therefore use your mounted smartphone as a convenient substitute to a dedicated third-party device such as a standalone GPS.

The adapter is easy to install on your motorcycle – simply zip-tie it to the frame to keep it in place. We recommend you do so underneath the seat to protect the adapter from road or weather conditions, since it does not feature any protective casing. For more advanced installations, the VC-OEM is capable of being integrated into a custom smartphone mount designed by LAVA engineers.

### *What is the VC-OEM?*

LAVA's VC-OEM is a universal power adapter that contains a built-in DC-DC voltage converter, enabling access to various types of power supplies. This converter takes a power input between 9 and 36 VDC (volts of direct current), and steps it down to 5 VDC – the standard charging requirement for mobile devices. The VC-OEM accomplishes the same thing, but only within DC voltage, expanding your charging capabilities to include battery-based and vehicle applications. Motorcycle batteries, for instance, operate at 12 VDC, so the VC-OEM adapter steps down the power to a device friendly 5 VDC.

This adapter works in isolated or mobile locations, there extension cords or standard power outlets are unavailable. You can charge a device while on or near your motorcycle, as long as the VC-OEM is properly connected to the bike's battery while it is idling.



## USB TO MOBILE DEVICE

The power adapter allows for full 10 Watt (2 Amps at 5 Volts) power to be supplied to the mobile device for charging.



### VC POWER

Power is provided via an external power supply between 9 and 36 VDC output through a 2.00mm center positive pin Barrel Jack Connector.

The voltage converter allows for the power source to be placed up to 50 feet away from the mobile device.

## VC-OEM Features

The VC-OEM has a small form factor and no native casing, allowing for easy installation and no interference with the motorcycle's frame. It contains a USB-A power output port, for your smartphone's charging cable, and a Barrel Jack Connector, 2.0mm Centre Pin Positive power input port, to connect to your motorcycle's battery (cable sourced separately).



## LAVA Tech Tip

If you enjoy long trips or tours on your motorcycle, consider linking the VC-OEM with a LAVA Charge-Check adapter! This will monitor your smartphone charge levels and prevent it from overcharging while on the road, protecting your battery health and longevity.

## About LAVA

LAVA's mission is to reshape the future of computing technology. We invent the most innovative and reliable connectivity solutions for our customers. With over 30 years of engineering experience and expertise, our team develops creative and effective tablet adapter solutions to meet today's technological challenges. Our products transform businesses and empower individuals by enhancing wired connection capabilities.