

# Application Note

## CTEK Battery Sense

### About CTEK

CTEK is one of the world's leading battery charger manufacturers, based in Sweden, and supplying distributors all over the world.

### How does BATTERY SENSE work?

By constantly measuring battery voltage and temperature, BATTERY SENSE knows the state of charge of your service battery without the need to install a complex shunt, through which all the ingoing and outgoing current must pass.

Battery Sense takes a reading from the battery every five minutes, and then taking into account voltage, battery size, parallel loads and any charging activity, it uses a specially developed algorithm to calculate the battery's underlying capability to deliver power. CTEK call this 'battery charge status', which is the percentage reading shown.

Provided the BATTERY SENSE unit is in Bluetooth range of the phone, data will be transferred to the app. The product works with any 12V battery up to 200Ah.



### Installation



This is quite simple. Just connect the red connector to the battery positive, the black connector to the battery negative, stick the BATTERY SENSE unit to the side of the battery or a convenient surface (with the sticky pad provided) and tidy up the wires with the cable ties (also provided).



### The App

Download the App for iPhone or Android and follow the on-screen instructions, which require you to enter the ID number of the BATTERY SENSE, plus the size of the battery (in Ah).

As you can see on the screenshots to the right, there is a comprehensive data page, showing present battery voltage and temperature, state of charge, plus a graph of charge state over time, as well as an indication of the time of last update.

