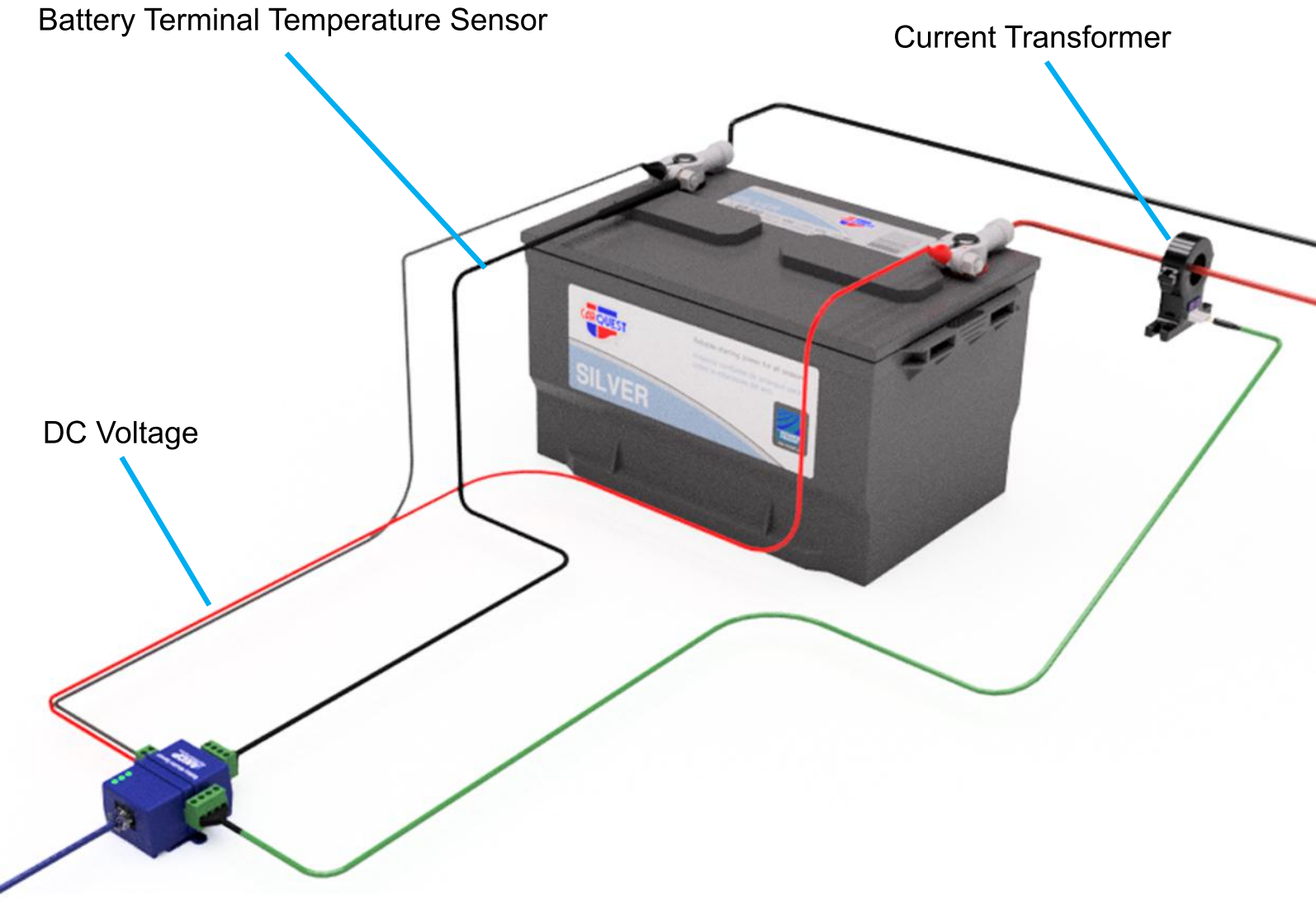
Battery Monitoring Sensor

BATTMON

Monitoring of Voltage, Current and Temperature

The Battery Monitoring Sensor is a simple, yet effective way to monitor a variety of battery types. Lead Acid, LiPoly type batteries, individual cells or banks of batteries. The sensor consists of a battery terminal temperature sensor, battery DC Voltage Meter and Current Monitoring.

Check the battery system performance, such as charge/discharge state and aids in maintaining battery health.

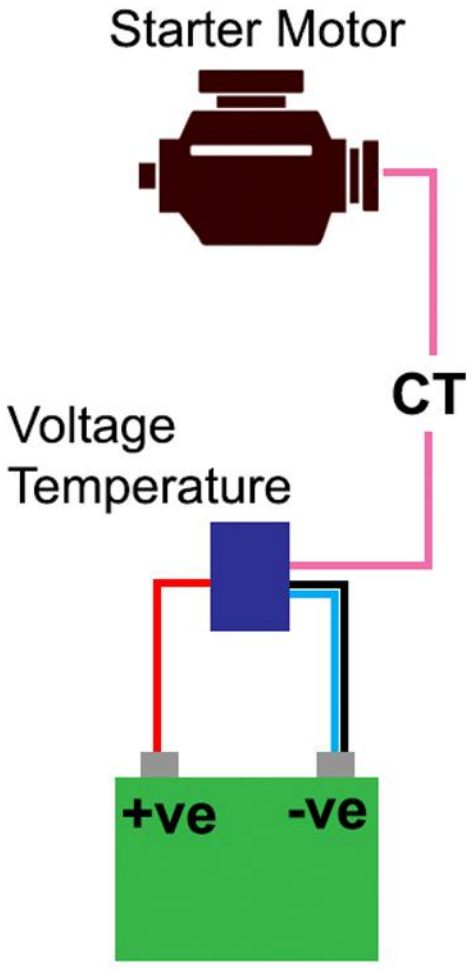


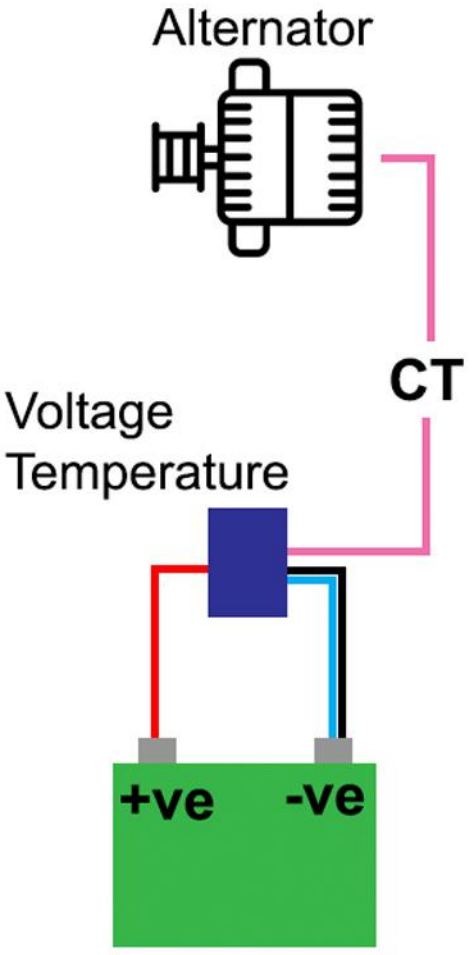
Generator Battery

Use the BATTMON to monitor your generators electrical system. Compatible with both 12 and 24 VDC battery configurations. Depending on your setup, the sensor can monitor the current draw on crank, or the charge current from the alternator. This can be used as an aid in monitoring of battery health.

Decreasing current on crank over a period of months can be an early sign of a problem that could lead to a failure to start, and can alert you to undertake maintenance prior to a failure to start scenario taking place.

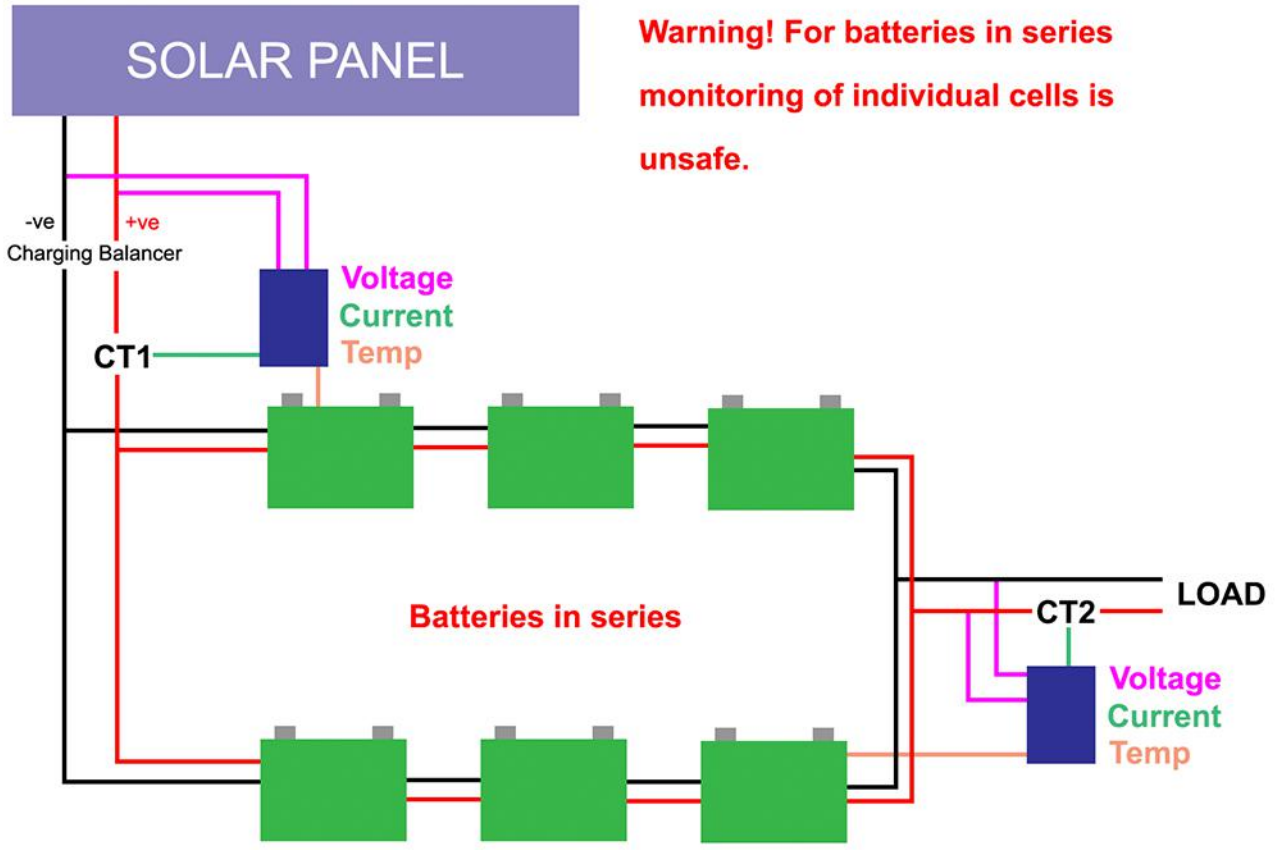
Alternatively setup with the current transformer (CT) on the engine alternator line. This can give an indication of alternator charging performance, to ensure that when engine is running the alternator is maintaining battery charge.





Solar System Monitoring

The BATTMON sensor can be installed on solar panel battery systems. Order without Split Core Current Transformer (CT) and use to monitor individual battery cell voltage and temperature. Place a single CT on the battery stack, as well as a CT on the output from your solar panels for a complete end to end monitoring of the solar systems charge current, battery load, cell voltages and temperatures.



CT1 = Monitor current from solar panels
CT2 = Monitor current draw from battery stack

Technical Specification

Mounting	DIN rail mounting Screw mounting
Power	Input Voltage and Current ratings : Voltage: 0~60VDC (3 configurable ranges : 0~15V, 0~30V or 0~60V) Current: external CT + 50A (standard) + 100A + 200A + 400A + 500A + 600A + 800A + 1000A + 1500A
Power Metering	Voltage (V) : +/-0.05% Full-Scale, error +/-0.05% Full-Scale Current (A) : +/-0.05% Full-Scale, error +/-0.05% Full-Scale Temperature Drift : +/-0.02%/°C Power (W) : +/-0.05% resolution
Temperature Monitoring	Temperature sensor with 1 meter cable range -40°C to +75°C
Status Indication	LED indication for power LED indication for input presence
Operating Environment	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
Inputs	1x sensor RJ45 Port Hardwired with following plugs : - Phoenix connector for voltage - Phoenix connector for temperature - Phoenix connector for external current transformer

Technical Drawing