

MONITORING THE BATTERY FLOAT CURRENT

Reduce the frequency of your battery maintenance!

The battery junction box (BJ BATT) is optional. This junction box is equipped with a current sensor to measure the float current (I_{bat_float}) required by a fully charged battery. The float current intensity is very low (a few milliamps) and keeps the battery at full charge.

- A float current increase means a **change in the battery state, which may be a sign that the battery is aging**. In such a case, the charger triggers an alarm: "High float current".
- A null value for this current means that **a battery cell, or a connection, is opened**. In this case, the charger triggers a alarm: "Low float current".

The BJ BATT junction box provides the ability to notify maintenance staff regarding an abnormal condition of the battery. Then, the evaluation of the battery should be made according to the maintenance procedures stated by the battery manufacturer.

Monitoring the float current allows to reduce the frequency of interventions in accordance with maintenance standards set by NERC PRC-005-2 for the maintenance of protection systems.

Measure battery temperature and extend its life expectancy!

The BJ BATT junction box is also equipped with 3 temperature sensors to measure the temperature of 2 battery cells and the ambient temperature around the battery. When the adjustable thresholds are exceeded, the charger triggers alarms to signal: "High battery temperature" and "High ambient temperature".

By this battery temperature monitoring, it is possible to control the operating environment for the batteries, which allows optimizing their lifespan.



Battery junction box (BJ BATT)

WIRING DIAGRAM FOR BATTERY JUNCTION BOX

