

SP PRO – Renewable Regulator Integration Application Note



Renewable Regulator Integration

The SP PRO Charging Mode monitoring system continuously monitors the battery voltage to determine if the conditions of a particular charging mode have been met. If so, the system changes to the next charging mode. Renewable regulators also have a similar monitoring system.

These systems whilst being similar do have some differences and by linking one system to follow the other, the differences are eliminated. For example, if the renewable regulator had entered Float stage and the SP PRO was in Absorb, both would be attempting to regulate to very different charge voltages.

Linking the two devices to signal what charging mode they are in, especially when the battery bank is fully charged allows for the best use of renewable and non-renewable resources.

Operation

Diagrams showing renewable regulator changing to Float Stage and response of SP PRO in both linked and not linked cases.

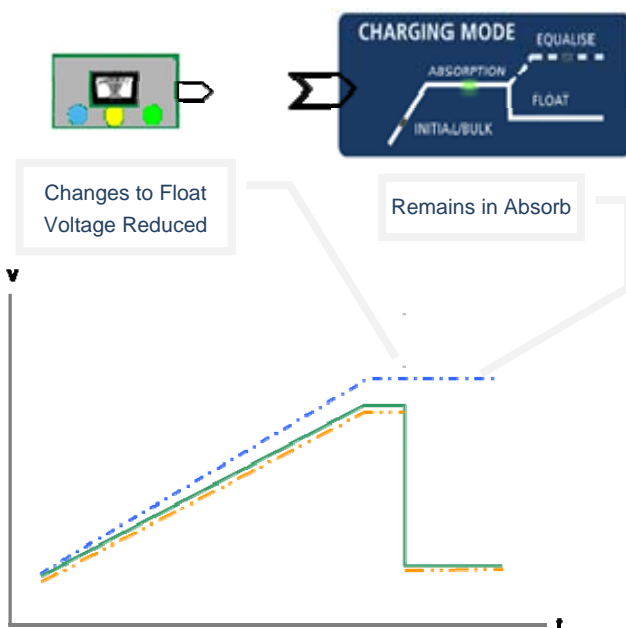


Figure 1 SP PRO operation when not linked

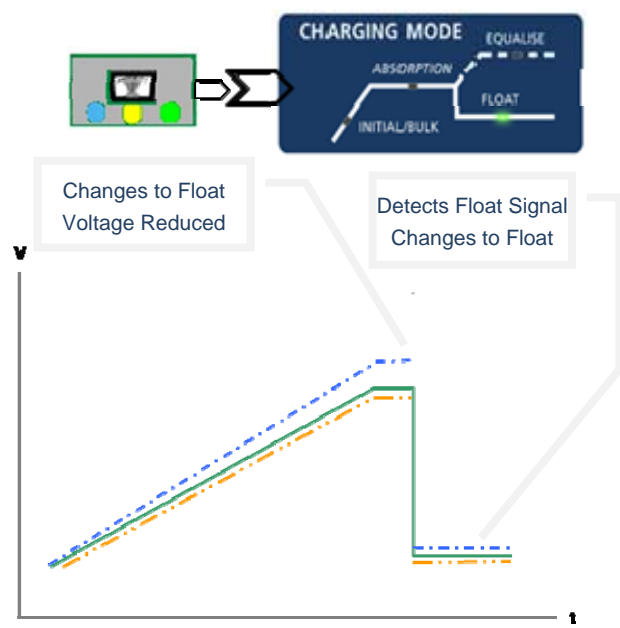


Figure 2 SP PRO operation when linked

Questions

For further information regarding the SP PRO Interactive Inverter Charger and Renewable Regulator Integration please contact the Selectronic team.