

## **SBC-7XXX/6XXX series**

### **Extend Remote ON/OFF signal from load terminal**

#### **1. Introduction**

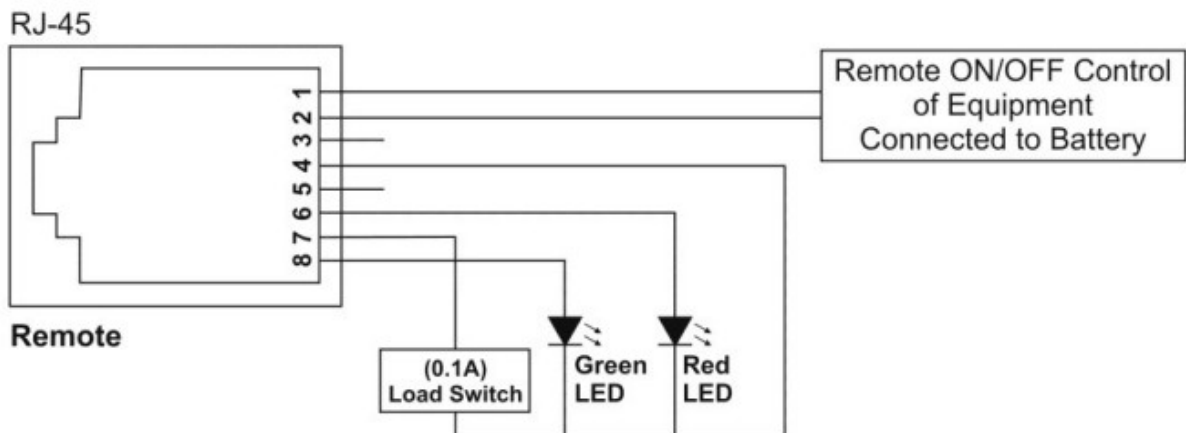
Manson SBC-7XXX/6XXX series of PV controller can add a remote signal terminal option before ship out from factory. This terminal can:

- i. Control the ON/OFF operation of equipment such as inverter hooked up to the battery bank to operate along with the night-light mode program and share the safeguard function such as low battery disconnect and reconnect.
- ii. Make extension connection of the battery status LED to allow remote monitoring Battery bank status.

Due to the terminal should be pre-installed before ship out from factory, it is no way for customer to add-on after market. This document is going to explain how to extend the ON/OFF control signal from load terminal without this remote signal terminal.

#### **2. Connection**

The remote signal terminal is a RJ-45 socket with the pin assignment as show in figure 1.



*Figure 1. Pin assignment of remote signal terminal*

The pin 1 and pin 2 is On/Off control signal synchronized with Night-light Mode. Figure 2 shows the typical connection for remote control ON/OFF of load through relay.

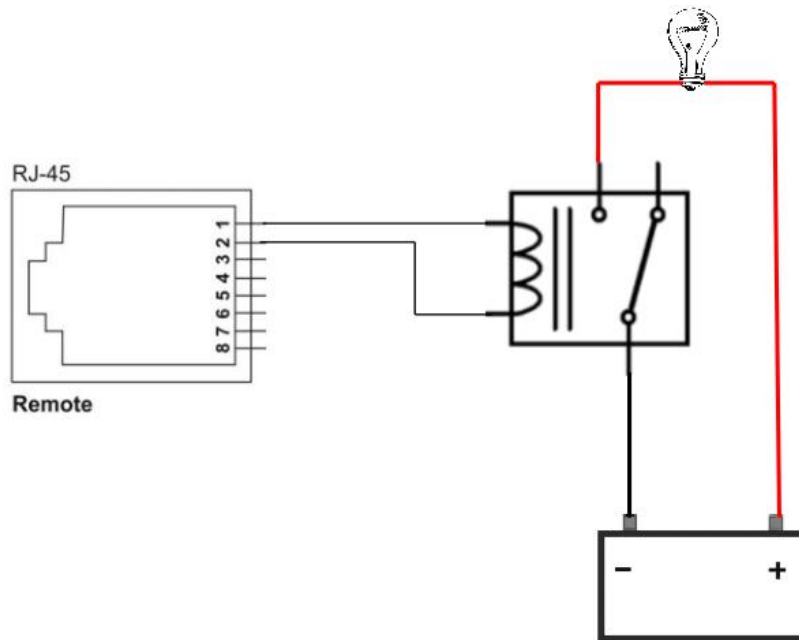


Figure 2. Typical connection of remote ON/OFF and relay

Due the the Pin 1 and Pin 2 signal is synchronized with the Night-light mode of PV controller, the remote control signal can extracted from LOAD terminal of PV controller directly as show in Figure 3. The result is same as use Pin 1 and Pin 2 in remote terminal.

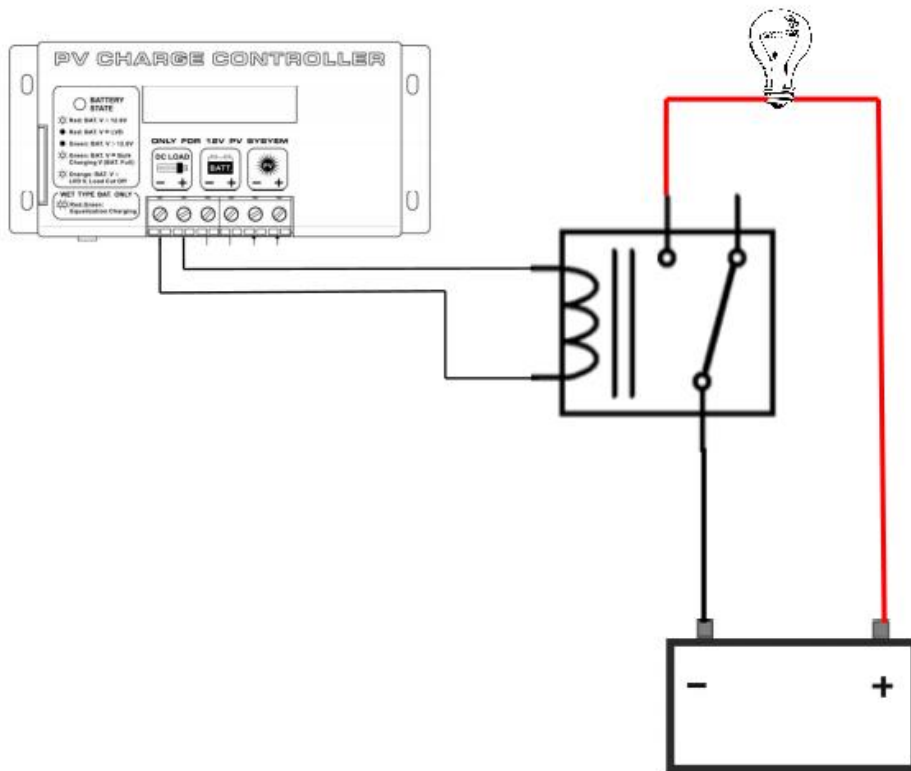


Figure 3. Connect remote ON/OFF signal from PV load terminal directly.