



TOPEN TCS3 Solar Charge Controller User Manual

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TOPEN TCS3 Solar Charge Controller



Thank you for purchasing the solar charge controller TCS3. Please confirm the voltage of the battery and the solar panel is in accordance with the working voltage of the controller (24V) before you use the controller. The TCS3 is specially designed for solar charge controlling and battery discharge controlling in automatic gate opener system. It is integrated with multiple safety protection for battery, such as: over charge protection and over discharge protection.

Capacity: 10 Amps

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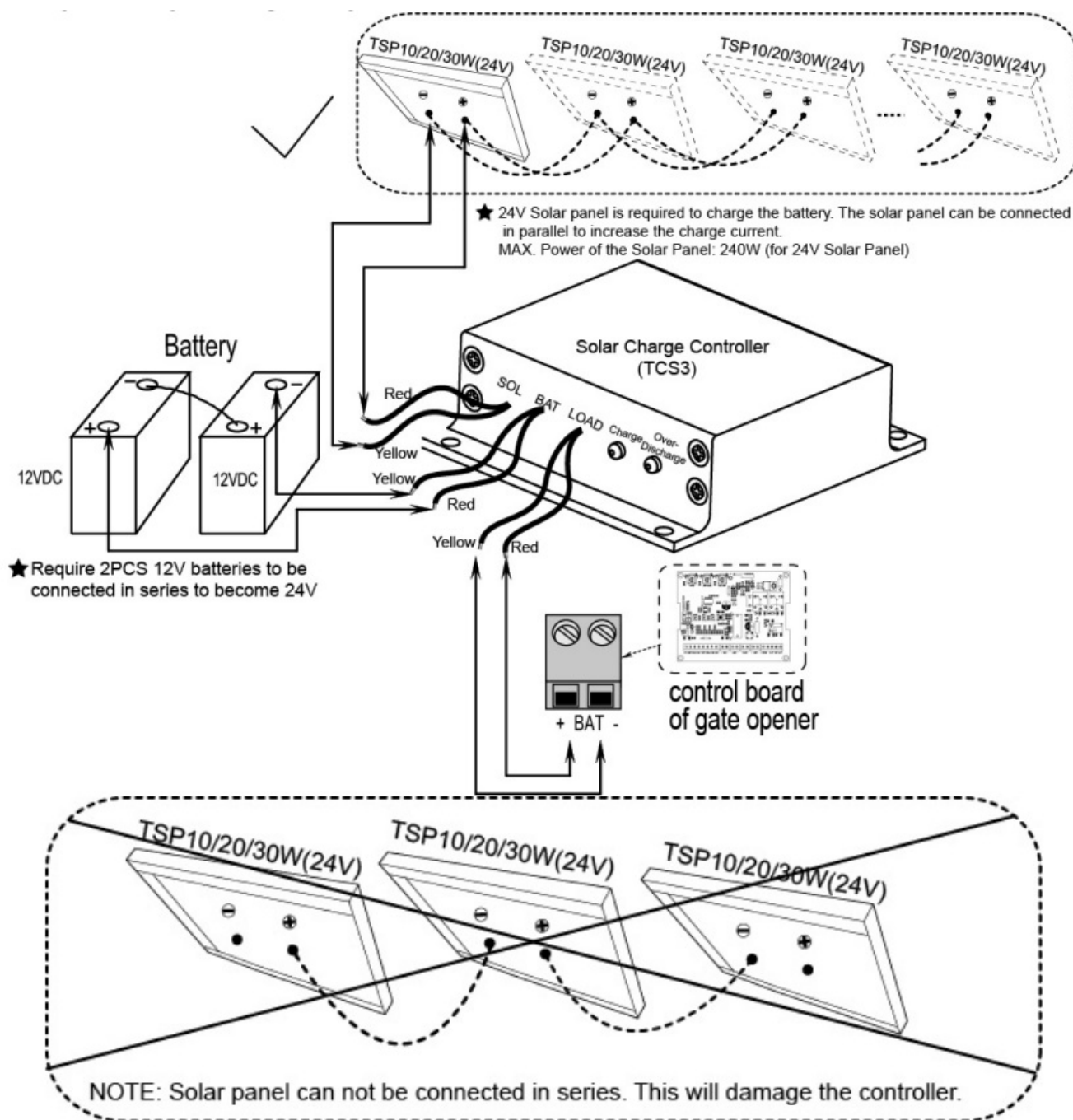
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Wire connection

The battery is only charged by solar panel (the adapter is not used)

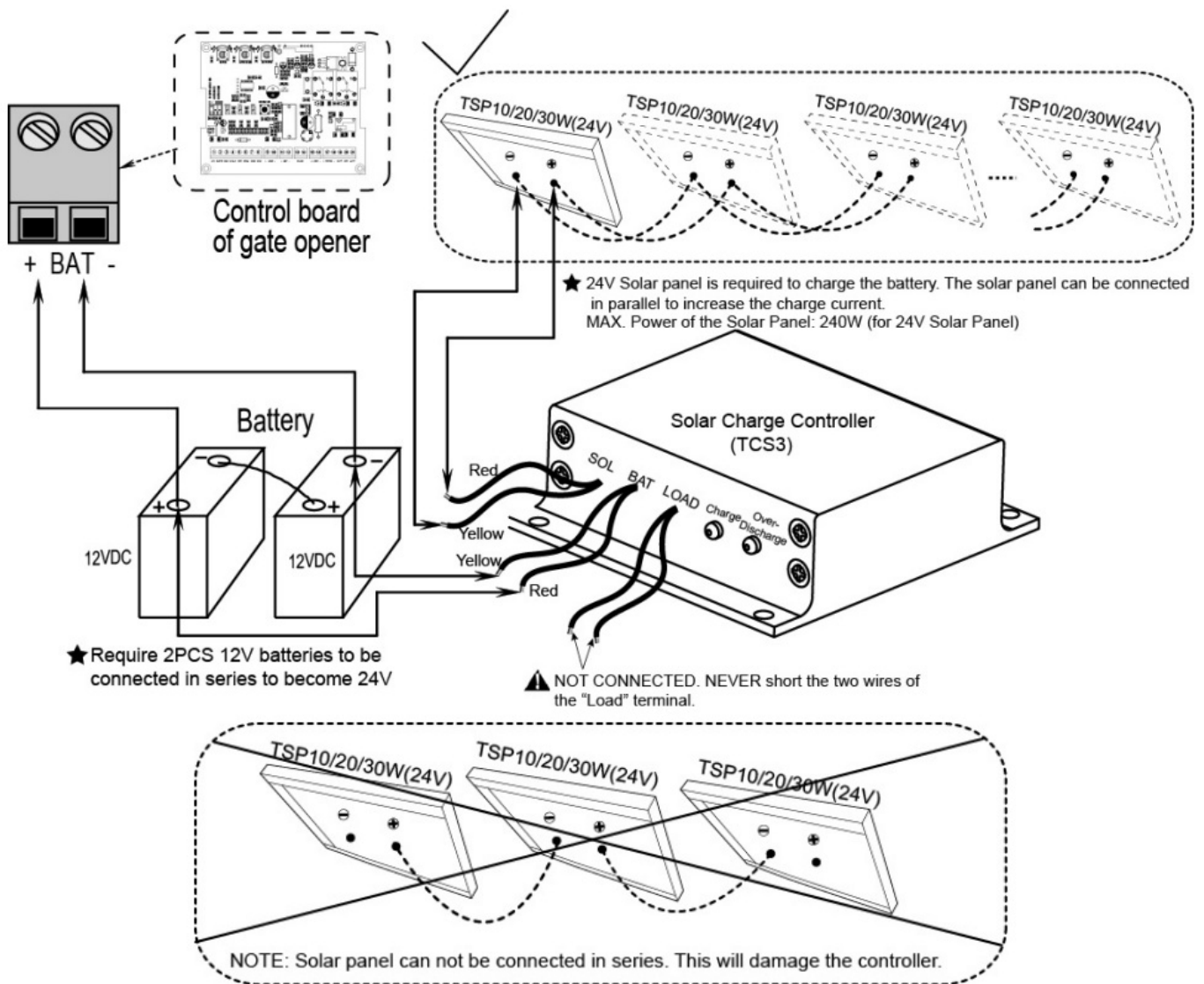


Firstly connect the battery to the controller and then connect the solar panel to the "SOL" terminal of the controller. Connect the "BAT" terminal of Control Board of gate opener to the "LOAD" terminal of the controller by the extension cord as wiring diagram above. Don't use the cord which is smaller than 0.75mm² (18 AWG) when the length is longer than 22.5m (75'). The 2mm² (14 AWG) or 3.3 mm² (12 AWG) is strongly recommended for 30m (100') or 45m (150') extension distance. Please note the polarity of all the appliances while connecting.

NOTE: Maximum current of the load or the solar panel should not exceed 10A.

NOTE: Solar panel can not be connected in series. It will damage the controller.

The battery is charged by solar panel and the adapter at the same time

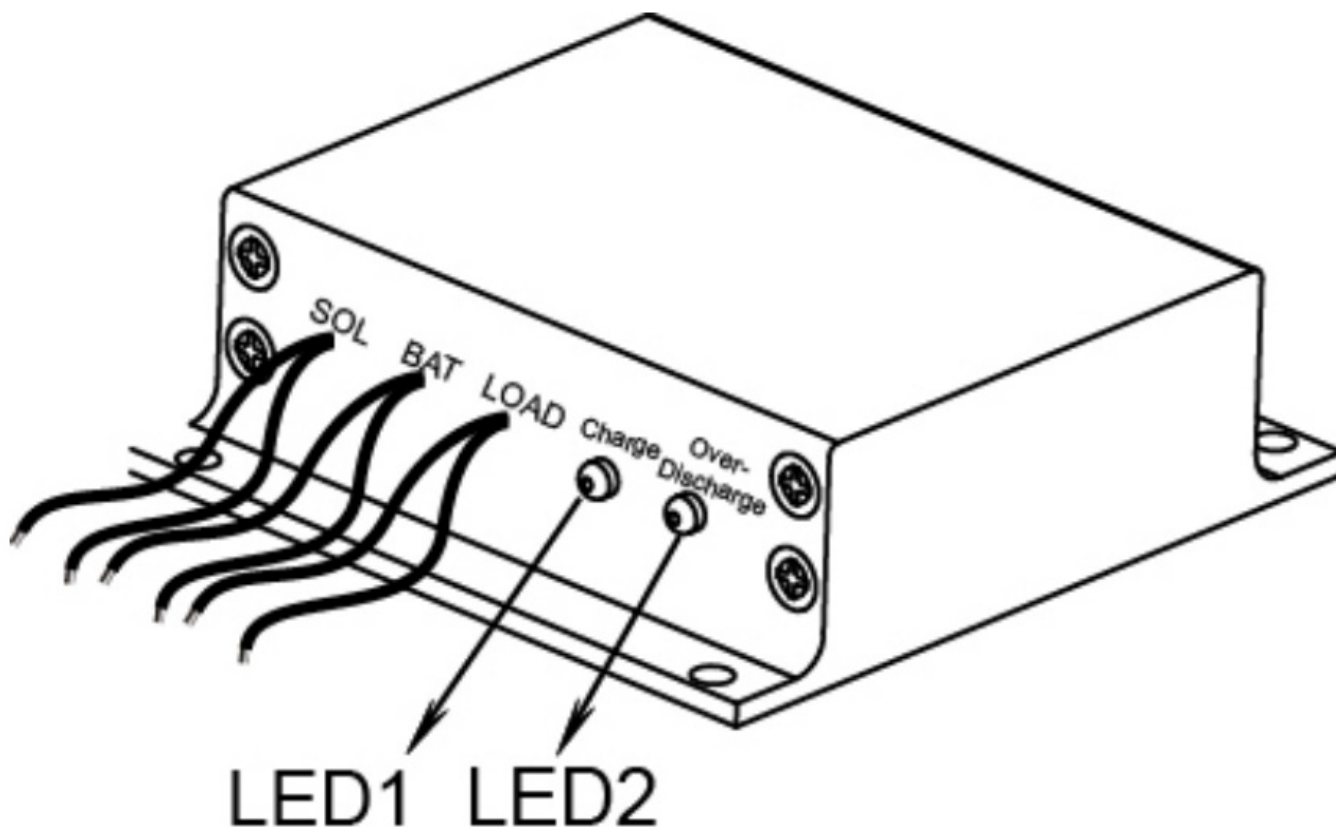


Firstly connect the battery to the controller and then connect the solar panel to the "SOL" terminal of the controller. Connect the "BAT" terminal of Control Board of gate opener to the battery as wiring diagram above. The 2 wires of "LOAD" terminal of the controller are not used. Never short the two wires of the "LOAD" terminal. Don't use the cord which is smaller than 0.75mm² (18 AWG) when the length is longer than 22.5m (75'). The 2mm² (14 AWG) or 3.3 mm² (12 AWG) is strongly recommended for 30m (100') or 45m (150') extension distance. Please note the polarity of all the appliances while connecting.

NOTE: Maximum current of the load or the solar panel should not exceed 10A.

NOTE: Solar panel can not be connected in series. It will damage the controller.

Indicators



LED1 is ON when the battery is not full-charged and it is OFF when the battery is full-charged. LED2 is ON when the battery is over-discharged and it is OFF when the battery could power the gate opener normally.



TOPENS Website

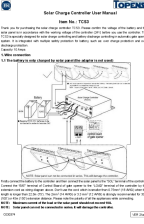
www.topens.com

Any question, please do not hesitate to contact us: E-mail: support@topens.com

Kindly include your Product Model, Purchasing Date & Site, Order #, and your contact information. All your concerns will be replied within 24 hours.

Tel: +1 (888) 750 9899 (Toll Free USA & Canada)

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References

- [TOPENS Gate Opener Automatic Swing Gate Operator & Sliding Gate Motor](#)