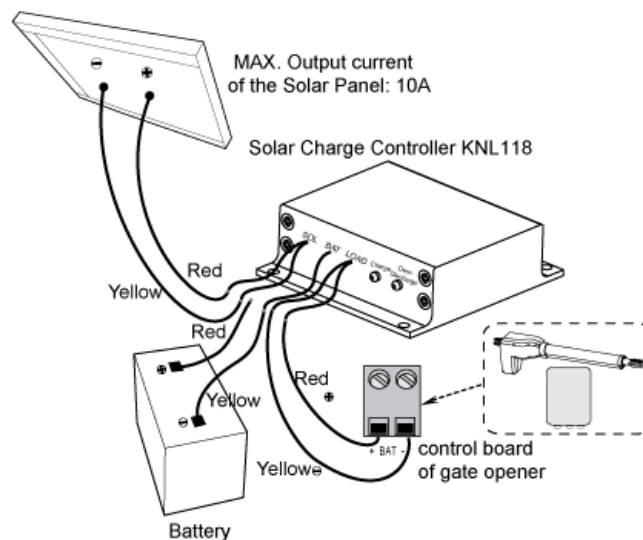


Solar Charge Controller (Item No. KNL118) User Manual

Thank you for purchasing the solar charge controller KNL118. Please confirm the voltage of the battery and the solar panel is in accordance with the working voltage of the controller (12V or 24V) before you use the controller. The KNL118 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

1. Connecting

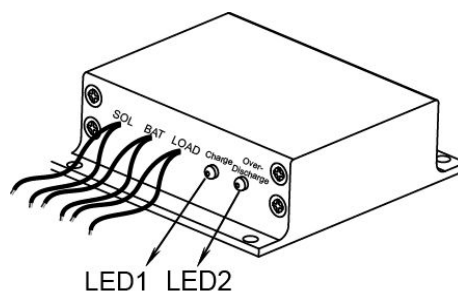


Firstly connect the battery to the controller and then connect the solar panel to the “ SOL ” terminal on the controller KNL118. Connect the “ BAT ” terminal of Control Board of gate opener to the “ LOAD ” terminal on the controller KNL118 by the extension cord as wiring diagram above. Don't use the cord which is smaller than 16 AWG when the length is shorter than the 75'. The 14 AWG or 12 AWG is strongly recommended for 100' or 150' extension distance.

TIP: The smaller the gauge numbers of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord.

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

2. Indicators



LED1 is ON when the battery is in charge 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.