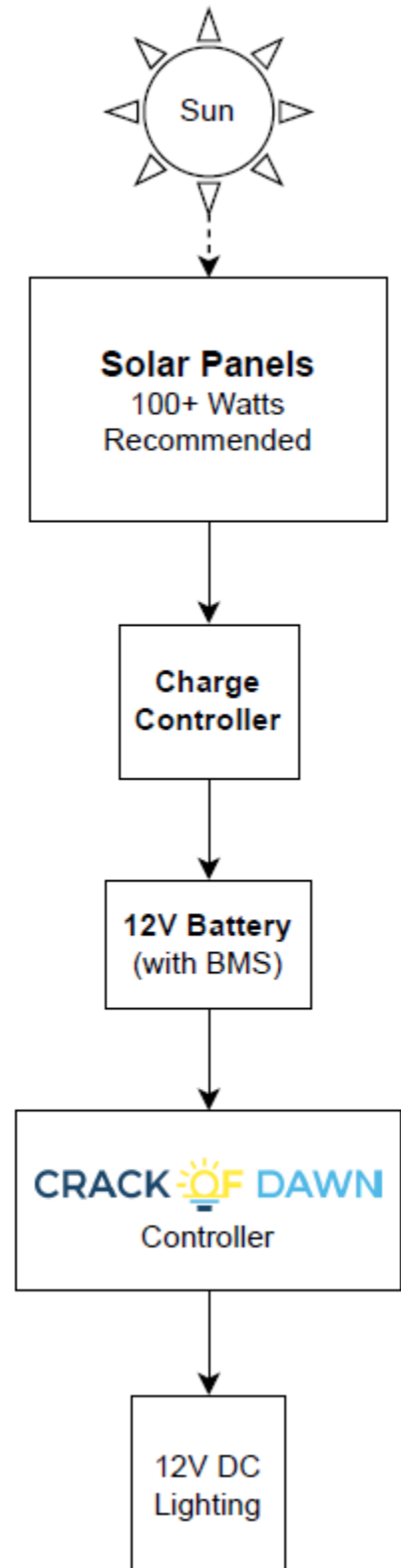# CRACK OF DAWN™ - System Wiring

Version 1.1 | Pastured Steps, LLC

Option 1: Battery with BMS

Recommended Solar Setup when using LiFePo4 batteries with a built-in Battery Management System (BMS). This is our preferred setup.

Notes:

1. Make all connections POS(+) to POS(+) and NEG(-) to NEG(-)

2. PV: 100 Watt minimum. Wire multiple panels in parallel. When using multiple panels, ensure that the panels are of the same size and voltage.

3. Charge Controller: Recommended 20A or greater. The charge controller must be compatible with the battery type used.

4. Battery: Storage capacity of 100Ah or greater is recommended. Multiple batteries of the same size can be wired in parallel to increase capacity.

Sun

Solar Panels
100+ Watts
Recommended

Charge Controller

12V Battery
(with BMS)
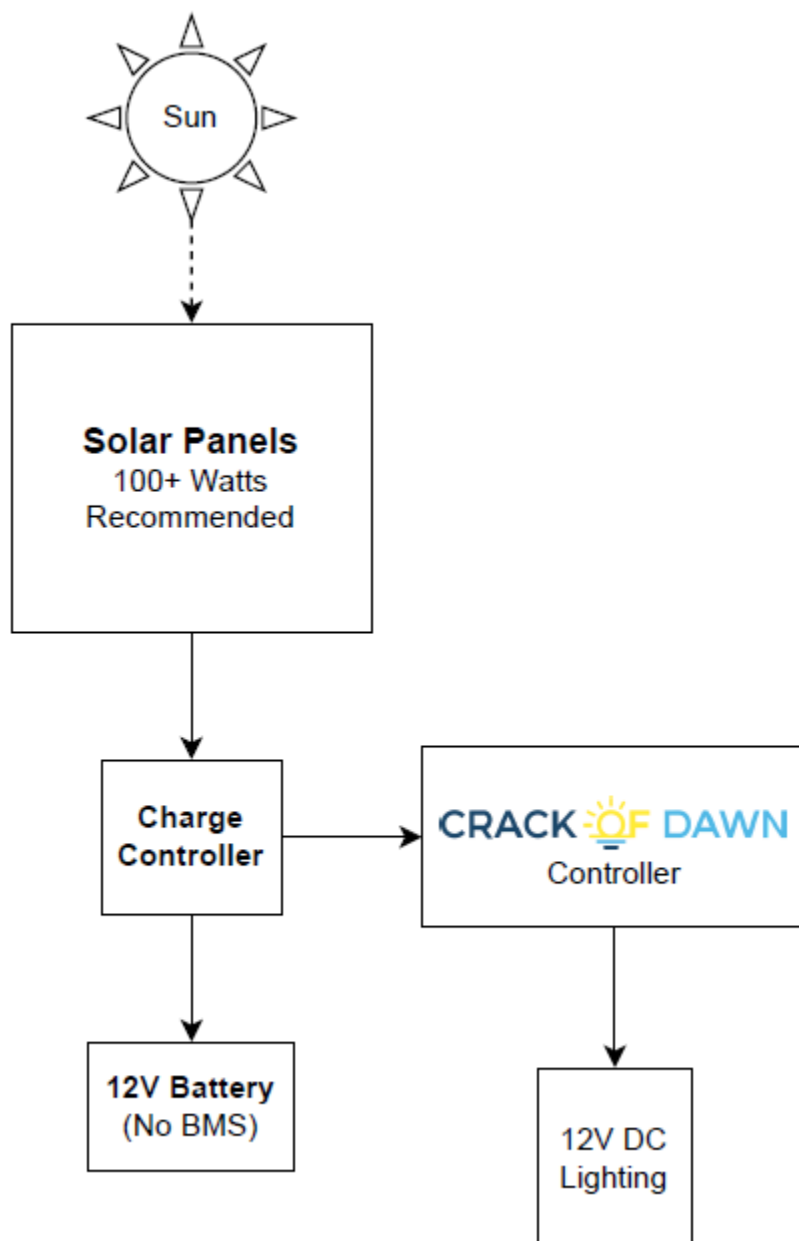
CRACK OF DAWN
Controller

12V DC Lighting

Option 2: Batteries without BMS

Recommended Solar Setup when using standard Lead Acid or AGM type batteries that do not have a built-in Battery Management System (BMS). The charge controller protects your batteries from overdischarge.

Notes:

1. Make all connections POS(+) to POS(+) and NEG(-) to NEG(-)

2. PV: 100 Watt minimum. Wire multiple panels in parallel. When using multiple panels, ensure that the panels are of the same size and voltage.

3. Charge Controller: Recommended 20A or greater. The charge controller must be compatible with the battery type used.

4. Battery: Storage capacity of 100Ah or greater is recommended. Multiple batteries of the same size can be wired in parallel to increase capacity.

Need Help? Full manual and troubleshooting available at:
www.crackofdawnlighting.com/support