

Integrated Solar Power System

Safety Instructions

Warnings

1. Do not dismantle, drop, smash, bend or step on the integrated solar power system (the "System"), otherwise, it might cause early performance decline of lithium battery and damage to solar panel.
2. Do not use or store the System near fire or immerse it in liquid.
3. Charge the System in 0 °C to 45 °C (32 °F to 113 °F), and discharge it in -20 °C to 60 °C (-4 °F to 140 °F).
4. Do not contact the battery with heavy current, otherwise, the electrical protective device might be damaged, resulting in dangerous accidents.
5. Do not disassemble or dismantle the System for other purposes without authorization.
6. Do not use the System when the battery port is seriously damaged, scuffed, bent, or detached.
7. Damaged batteries shall be handled according to local regulations. Do not handle or throw batteries randomly.
8. Keep the lithium battery out of reach of children.
9. Batteries should be replaced by battery manufacturer or supplier. Do not replace the battery by yourself.

Storage

1. Before using the battery, check whether it needs to be charged. If you want to store it, charge it to 30%–50% every three months. This helps prevent overdischarge of battery. Use special charger for lithium iron phosphate battery. Charge time (h) = $45\text{Ah} \times 50\% / \text{charging current}$.
2. If the battery is not used for a long time, store it in a cool dry place.
3. Avoid direct sunlight when storing the battery.
4. Do not store the battery in pressure vessel for pressurization or vacuum treatment.
5. Storage temperature:
 - 1 month: 0 °C to 40 °C (32 °F to 104 °F);
 - 3 months: 0 °C to 30 °C (32 °F to 86 °F);
 - Over one year: 0 °C to 20 °C (32 °F to 68 °F).
6. Storage humidity: $\leq 75\%$ RH.