

## LiFePO4 Battery - Precautions and Usage

1. For LiFePO4 battery (BPC81 and BPC82) used for emergency lighting control gear:

- Please kindly note that the optimal storage temperature should be 22°C to 28°C.
- The relative humidity (RH) for battery storage should be 45% to 85%.
- Keep the battery wires unconnected if the battery is intended to be stored for more than 3 months.
- The maximum battery cycles under 55°C should not exceed 80 times.
- Please kindly charge battery for 24 hours before using.
- Do not short-circuit the battery pack.

2. Short-circuit protection:

In case of a short circuit happening with battery, both the battery and the emergency gear will activate short-circuit protection.

3. Overtemperature protection:

In case of battery overheating, the emergency gear will activate overtemperature protection by disabling charging, until the temperature returns to 5°C to 55°C. When temperature goes below 5°C or above 55°C, the discharging of the battery is still possible to guarantee emergency operation.

4. Overcharge protection:

In case of the battery getting overcharged to exceed 7.3V, both the battery and emergency gear will cut off bilateral connection.

5. Deep discharge protection:

In case of battery discharging to below 5.5V, the battery itself will cut off connection to the emergency gear to prevent further discharge, until the battery is recharged to a normal voltage level.