

ORION LFP 3.2V 100Ah Prismatic LiFePO4 Cell



The ORION IFR 100Ah is a popular LiFePO4 cell. It is intended for use in high capacity, high voltage battery packs. It can power a wide range of devices including an electric vehicle, solar energy, energy storage systems.

Do not purchase LFP batteries before reading and understanding these safety cautions. Using a LiFePO4 cell incorrectly may cause it to leak, generate heat, smoke, catch on fire, or explode.



SAFETY

- + The cell must stay in the operating temperatures outlined in its data sheet
- + The cell must not exceed voltage, current, and other ratings in its data sheet
- + Store batteries separately, and do not transport without proper packaging
- + Never store or transport together with conductive or metallic objects particularly in a pocket or bag
- + Do not keep in the sun, in a hot car, or anywhere with direct heat
- + Recycle discontinued batteries according to local regulations and cover terminals with insulating tape before disposal
- + Discharge end or cut-off voltage in data sheet is lower-limit for discharge cycle and should not be exceeded
- + Charger or device should implement warning for over-voltage, over current, and over-temperature, control of overcharge, and charge timer
- + Be careful not to short-circuit

TECHNICAL DATA

| | |
|---|-------------------|
| Cell Dimensions | 22x13x4cm |
| Cell Weight | 2300g |
| Cell Capacity (nominal/minimum) (0.5C Rate) | 100Ah |
| Voltage (nominal) | 3.2V |
| Internal Resistans (23 ± 2°C) | <0.55mΩ |
| Energy Density | 320Wh |
| Recommended Standard Charge Method | 50A, 3.65V CC-CV |
| Maximum Charge Method | 100A, 3.65V CC-CV |
| Maximum Continuous Discharge | 100A |
| Discharge Cut-off Voltage | 2.50V |
| Cycle Life | 3000 cycles |
| Operating Temperature | -10°C to 60°C |
| Storage Temperature | 0°C to 35°C |