

ORION LFP 3.2V 50Ah 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 a 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	20x12x4cm
Cell Weight	1500g
Cell Capacity (nominal/minimum) (0.5C Rate)	50Ah
Voltage (nominal)	3.2V
Internal Resistans (23 ± 2°C)	<0.55mΩ
Energy Density	160Wh
Recommended Standard Charge Method	16.5A, 3.65V CC-CV
Maximum Charge Method	50A, 3.65V CC-CV
Maximum Continuous Discharge	50A
Discharge Cut-off Voltage	2.50V
Cycle Life	3000 cycles
Operating Temperature	-10°C to 60°C
Storage Temperature	0°C to 35°C