

ORION LFP 12.8V 100 Ah Battery

Lithium Iron Phosphate



The ORION LFP 12,8V 100Ah smart battery is a popular, lithium iron phosphate battery. It is intended for use in high capacity, high voltage battery. It can power a wide range of devices including an electric buffer, solar systems, toys, smart doorbell or marin.

Do not purchase batteries before reading and understanding these safety cautions. Using a lithium iron phosphate battery incorrectly may a cause it to leak, generate heat, smoke, catch on afire, 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
- +If the cell is attached to a PCB, keep it away from high-static environments
- +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

| | |
|--|-------------------|
| Battery Dimensions | 26x17x22cm |
| Battery Weight | 9,5±0,1kg |
| Capacity (nominal/minimum) (0.5C Rate) | 100Ah |
| Voltage (nominal) | 12,8V |
| Internal Resistans (23 ± 2°C) | <15 mΩ |
| Energy Density | 1280Wh |
| Recommended Standard Charge Method | 20A, 14.40V CC-CV |
| Maximun Charge Method | 50A, 14.40V CC-CV |
| Maximum Continuous Discharge | 100A – 1C |
| Discharge Cut-off Voltage | 10V |
| Cycle Life (80% DOD 0,2C rate) | >6000 cycles |
| Operating Temperature | -20°C to 60°C |
| Storage Temperature | 0°C to 35°C |
| Communication | Bluetooth |