

ORION 32700/55 5500mAh 3C (16.5A) LiFePO4 Cell



The ORION 32700/55 is a popular LiFePO4 cell. It is intended for use in high capacity, high voltage 32700 battery packs. It can power a wide range of devices including an electric buffer, smart video doorbell, or fiber optic tester.

Do not purchase 32700 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
- +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

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|---|---------------------|
| Cell Dimensions | 32.4x70mm |
| Cell Weight | 132 ± 2g |
| Cell Capacity (nominal/minimum) (0.5C Rate) | 5500mAh |
| Voltage (nominal) | 3.2V |
| Internal Resistans (23 ± 2°C) | <15mΩ |
| Energy Density | 17.60Wh |
| Recommended Standard Charge Method | 2750mA, 3.65V CC-CV |
| Maximum Charge Method | 5500mA, 3.65V CC-CV |
| Maximum Continuous Discharge | 16500mA |
| Discharge Cut-off Voltage | 2.00V |
| Cycle Life | 3000 cycles |
| Operating Temperature | -10°C to 60°C |
| Storage Temperature | 0°C to 35°C |