

# ORION 18500/15 1500mAh 1C (1.5A) Lithium Ion Cell



The Orion 18500 is a popular lithium-ion cell. It is intended for use in high current 18500 battery packs. It can power a wide range of devices including a doorbell, toys or cordless phone. Do not purchase 18500 batteries before reading and understanding these safety cautions. Using a lithium-ion 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

|                                             |                   |
|---------------------------------------------|-------------------|
| Cell Dimensions                             | 18.5x51mm         |
| Cell Weight                                 | 34 ± 2g           |
| Cell Capacity (nominal/minimum) (0.2C Rate) | 1500mAh           |
| Voltage (nominal)                           | 3.6V              |
| Internal Resistans (23 ± 2°C)               | <55mΩ             |
| Energy Density                              | 5.40 Wh           |
| Recommended Standard Charge Method          | 300mA, 4.2V CC-CV |
| Maximum Charge Method                       | 750mA, 4.2V CC-CV |
| Maximum Continuous Discharge                | 1500mA            |
| Discharge Cut-off Voltage                   | 2.75V             |
| Cycle Life                                  | 1000 cycles       |
| Operating Temperature                       | -20°C to 60°C     |
| Storage Temperature                         | 0°C to 45°C       |