

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 Resistance (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 (100% DOD)	300 cycles
Operating Temperature	-20°C to 60°C
Storage Temperature	0°C to 45°C