

ORION 18650 3000mAh 10C (30A)

Lithium Ion Cell



The Orion 18650/30 is a popular lithium-ion cell. It is intended for use in high current 18650 battery packs. It can power a wide range of devices including a drone, photo printer, or cordless vacuum cleaner.

Do not purchase 18650 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	18.5x65mm
Cell Weight	47 ± 1.5g
Cell Capacity (nominal/minimum) (0.2C Rate)	3000mAh
Voltage (nominal)	3.6V
Internal Resistance (23 ± 2°C)	<18mΩ
Energy Density	10.80 Wh
Recommended Standard Charge Method	1500mA, 4.2V CC-CV
Maximum Charge Method	4000mA, 4.2V CC-CV
Maximum Continuous Discharge	30A
Discharge Cut-off Voltage	2.0V
Cycle Life (1C discharge)	1000 cycles
Cycle Life (20A discharge)	500 cycles
Storage Temperature	0°C to 50°C
Operating Temperature	-20°C to 80°C