

# ORION 18650 3500mAh 3C (10.5A)

## Lithium Ion Cell



The Orion 18650/35 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	50 ± 1.5g
Cell Capacity (nominal/minimum) (0.2C Rate)	3500mAh
Voltage (nominal)	3.6V
Internal Resistans (23 ± 2°C)	<40mΩ
Energy Density	12.60 Wh
Recommended Standard Charge Method	1675mA, 4.2V CC-CV
Maximum Charge Method	3500mA, 4.2V CC-CV
Maximum Continuous Discharge	10500mA
Discharge Cut-off Voltage	2.75V
Cycle Life (1C discharge)	1000 cycles
Storage Temperature	-20°C to 45°C
Operating Temperature (Charge)	0°C to 45°C
Operating Temperature (Discharge)	-20°C to 60°C