

ORION 18650 2450mAh 12C (29,4 A)

Lithium Ion Cell



The Orion 18650 2450 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

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|---|--------------------|
| Cell Dimensions | 18.5x65mm |
| Cell Weight | 45 ± 2g |
| Cell Capacity (nominal/minimum) (0.5C Rate) | 2450mAh |
| Voltage (nominal) | 3.6V |
| Internal Resistance (23 ± 2°C) | <18mΩ |
| Energy Density | 8.82Wh |
| Recommended Standard Charge Method | 490mA, 4.2V CC-CV |
| Maximum Charge Method | 2450mA, 4.2V CC-CV |
| Maximum Continuous Discharge | 19.600mA – 8C |
| Maximum Pulse Discharge | 29.400mA -12C |
| Discharge Cut-off Voltage | 2.75V |
| Cycle Life | 500 cycles |
| Operating Temperature | -20°C to 60°C |
| Storage Temperature | 0°C to 45°C |