

ORION 18650/24 2450mAh 12,25(5C)

Lithium Ion Cell



The ORION 18650/24 is a popular lithium-ion cell. It is intended for use in high capacity, high voltage 18650 battery packs. It can power a wide range of devices including an electric buffer, smart video doorbell, or fiber optic tester.

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	18x65mm
Cell Weight	45.5g
Cell Capacity (nominal/minimum) (0.5C Rate)	2450mAh
Voltage (nominal)	3.7V
Internal Resistance ($23 \pm 2^{\circ}\text{C}$)	$<32\text{m}\Omega$
Energy Density	9.065Wh
Recommended Standard Charge Method	490mA, 4.2V CC-CV
Maximum Charge Method	1225mA, 4.2V CC-CV
Maximum Continuous Discharge	7350mA
Maximum Pulse Discharge	12250mA
Discharge Cut-off Voltage	3.00V
Cycle Life	1000 cycles
Operating Temperature	-20°C to 60°C
Storage Temperature	0°C to 35°C