

# ORION 103450/20 2000mAh 1C (2A) Lithium Ion Cell



The Orion 103450/20 is a popular lithium-ion cell. It is intended for use in high current 103450 battery packs. It can power a wide range of devices including an electric buffer, smart video doorbell, or fiber optic tester. Do not purchase 103450 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	10x34x50mm
Cell Weight	50g
Cell Capacity (nominal/minimum) (0.5C Rate)	2000mAh
Voltage (nominal)	3.7V
Internal Resistans ( $23 \pm 2^{\circ}\text{C}$ )	<55m $\Omega$
Energy Density	7.40Wh
Recommended Standard Charge Method	400mA, 4.2V CC-CV
Maximum Charge Method	2000mA, 4.2V CC-CV
Maximum Continuous Discharge	2000mA
Discharge Cut-off Voltage	2.75V
Cycle Life (100% DOD)	300 cycles
Operating Temperature	-30°C to 60°C
Storage Temperature	-20°C to 60°C

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