ORION 9V 650mAh Li-ion Battery 1C (650mA)

Lithium Ion Cell (with BMS)

The ORION 9V Li-ion is a popular lithium-ion cell. It is intended for use in high capacity, high voltage 6F22 battery packs. It can power a wide range of devices including an electric buffer, smart video doorbell, or fiber optic tester.
Do not purchase 6F22 li-ion batteries before reading and understanding these safety cautions. Using a lithium-ion cell incorrectly may a cause it to leak, generate heat, smoke, catch on afire, 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	26x49x19mm
Cell Weight	23.5g
Cell Capacity (nominal/minimum) (0.5C Rate)	650mAh
Voltage (nominal)	7.4V
Internal Resistans (23 ± 2°C)	<195mΩ
Energy Density	4.81Wh
Recommended Standard Charge Method	130mA, 8.4V CC-CV
Maximum Charge Method	325mA, 8.4V CC-CV
Maximum Continuous Discharge	650mA – 1C
Maximum Pulse Discharge	1300mA – 2C
Discharge Cut-off Voltage	5.60V
Cycle Life	1000 cycles
Operating Temperature	-20°C to 60°C
Storage Temperature	0°C to 35°C

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