

# ORION 18650/15 1500mAh 3C (4.5A)

## Lithium Ion Cell



The ORION 18650/15 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                                 | 40.6g              |
| Cell Capacity (nominal/minimum) (0.5C Rate) | 1500mAh            |
| Voltage (nominal)                           | 3.7V               |
| Internal Resistans (23 ± 2°C)               | <55mΩ              |
| Energy Density                              | 5.55Wh             |
| Recommended Standard Charge Method          | 300mA, 4.2V CC-CV  |
| Maximum Charge Method                       | 1500mA, 4.2V CC-CV |
| Maximum Continuous Discharge                | 3000mA – 2C        |
| Maximum Pulse Discharge                     | 4500mA – 3C        |
| Discharge Cut-off Voltage                   | 3.00V              |
| Cycle Life                                  | 1000 cycles        |
| Operating Temperature                       | -20°C to 60°C      |
| Storage Temperature                         | 0°C to 35°C        |