

# ORION 1/2SC 1000mAh Cell

## Ni-Cd Rechargeable Battery



ORION rechargeable nickel-cadmium batteries feature the performance, high-power and reliability needed for today's high- technology equipment. It is suitable for making safe and economical battery packs. It can power a wide range of devices including an emergency lighting, toys, medical devices etc.

Do not purchase Ni-Cd batteries before reading and understanding these safety cautions. Using a Ni-Cd cell incorrectly may cause it to leak, generate heat, smoke, catch on a 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                      | 22.1x26mm       |
| Cell Weight                          | 28g + 5g        |
| Cell Capacity (nominal) (0.2 C Rate) | 1000mAh         |
| Voltage (nominal)                    | 1.2V            |
| Internal Resistans (23 ± 2°C)        | <30mΩ           |
| Energy Density                       | 3000mWh         |
| Recommended Standard Charge Method   | 100mA x 15hours |
| Rapid Charge Method                  | 300mA x 4hours  |
| Maximum Continuous Discharge         | 3000mA (3C)     |
| Discharge Cut-off Voltage            | 1V              |
| Cycle Life                           | ≥500 cycles     |
| Operating Temperature                | -20°C to 60°C   |
| Storage Temperature                  | -20°C to 35°C   |
| Charge Retention                     | 750mAh (28days) |