

# ORION 6LR61 9V Alkaline Cell

## Alkaline Batteries



Orion Alkaline batteries are very small, very light, and great for small and low-power devices. They're also fairly safe, have a long shelf life and fairly inexpensive per unit. These batteries are the most commonly used worldwide in torch, remote control, clock, toys, digital cameras, radios etc.

Do not purchase Lithium batteries before reading and understanding these safety cautions. Using a Lithium cell incorrectly may cause it to leak, generate heat, smoke, catch on fire.



### 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	26.5 x 17.5x 48.5mm
Cell Weight	50g
Cell Capacity (180Ω continuous to 4.8V)	500mAh
Voltage (nominal)	9V
Discharge Cut-off Voltage	4.8V
Temperature range	-10°C to 45°C
Recommended Storage Temperature	20°C ± 2°C
Open Circuit Voltage (fresh)	≥9.48V ~ 9.9V
Open Circuit Voltage (after 12 months)	≥9.36V ~ 9.9V
Closed Current Voltage (fresh)	≥ 7.25V (load 180Ω for 0.3s)
Closed Current Voltage (after 12 months)	≥ 6.75V (load 180Ω for 0.3s)
Service Life (180Ω)	≥860mins (cut off: 4.8V)
Service Life (180Ω after 12 months)	≥800mins (cut off: 4.8V)