

LI ION BATTERY - ICR 14250



- The “14250” designation refers to a cylindrical cell format approximately **14 mm diameter × 25 mm height** (i.e., “14×25 mm” size).
- The prefix “ICR” denotes a lithium-ion chemistry using a cobalt-based cathode (often Lithium-Cobalt Oxide, LiCoO_2) in many battery naming conventions.
- So: an ICR14250 is a small rechargeable Li-ion cylindrical cell in 14×25 mm size, nominally around 3.7 V.

SPECIFICATIONS	
Nominal Cell Voltage	3.7V
Voltage Limits	2.75-4.2V
Specific Energy density	100-265W.h/kg (Energy relative to weight)
Volumetric Energy density	>250-693W.h/L (Energy relative to volume)
Time durable	>5 years
Cycle durable	>700 cycles at 80% DOD
Work temperature range	−20 ~60°C
Self-discharge rate	<20%/Month
Typical application	Portable electronics, solar application, EV
Weight	11g
Material	lithium cobalt oxide(LiCoO_2)

Typical Uses

Because of its compact size and capacity/voltage, the ICR14250 is suited for:

- Portable / small electronics that need a rechargeable ~3.7 V cell and have space constraints.
- Applications like sensors, small devices, modules where AA size is too large and coin/cell sizes too small.
- Custom battery packs (series/parallel)

Continues...

Key Precautions & Things to Check

- Match **voltage/chemistry**: Because nominal 3.7 V — ensure device is designed for Li-ion.
- Charging: Use li-ion charger, termination at ~4.2 V, with appropriate cell protection.
- Size: 14×25 mm is smaller than typical AA, so ensure mechanical/holder fit.
- Current Discharge Limits: Smaller cells like this will have limited discharge current...
- Quality/Safety: Because many vendors, check for safety certifications (e.g., UN38.3, IEC62133)
- Thermal/Environmental: If using in extreme temps, verify vendor spec (some claim –40 °C to +85 °C).

COMMON SIZES AVAILABLE					
Model	Nominal Voltage(V)	Nominal Capacity(mAh)	Diameter (mm)	Height (mm)	Weight (g)
ICR10440	3.7V	350	10.2	44.5	10
ICR14250	3.7V	350	14.2	25.5	11
ICR14650	3.7V	1100	14.2	65.5	25
ICR14500	3.7V	800	14.2	50.5	22
ICR16430	3.7V	600	16.2	43.5	17
ICR17335	3.7V	600	17.2	33.7	17
ICR18500	3.7V	1500	18.2	50.5	22
ICR18650	3.7V	2200	18.2	65.5	43
	3.7V	2400	18.2	65.5	44
	3.7V	2500	18.2	65.5	44
	3.7V	2600	18.2	65.5	45
	3.7V	2800	18.2	65.5	47
ICR26650	3.7V	5000	26.5	65.5	95