

# Rechargeable lithium-ion battery 18650

Extreme performance in demanding environments



## Electrical characteristics

Nominal voltage	3.6 V
Nominal capacity	2200 mAh
Nominal energy	7.92 Wh
Internal resistance	Under 60 mΩ

## Mechanical characteristics

Diameter	18 mm
Height	65 mm
Weight	Maximum 45 grams

## Operating conditions

Charge method	Constant current/ Constant voltage
Maximum charge voltage	4.2 V
Maximum charge current	1.1 A
charge temperature range	0°C to +45°C
Maximum continuous discharge current	2.2 A
Discharge cut-off voltage	3 V
Discharge temperature range	-20°C to +60°C
Standards	ISIRI 6618, IEC 61960, IEC 62133

## Technology

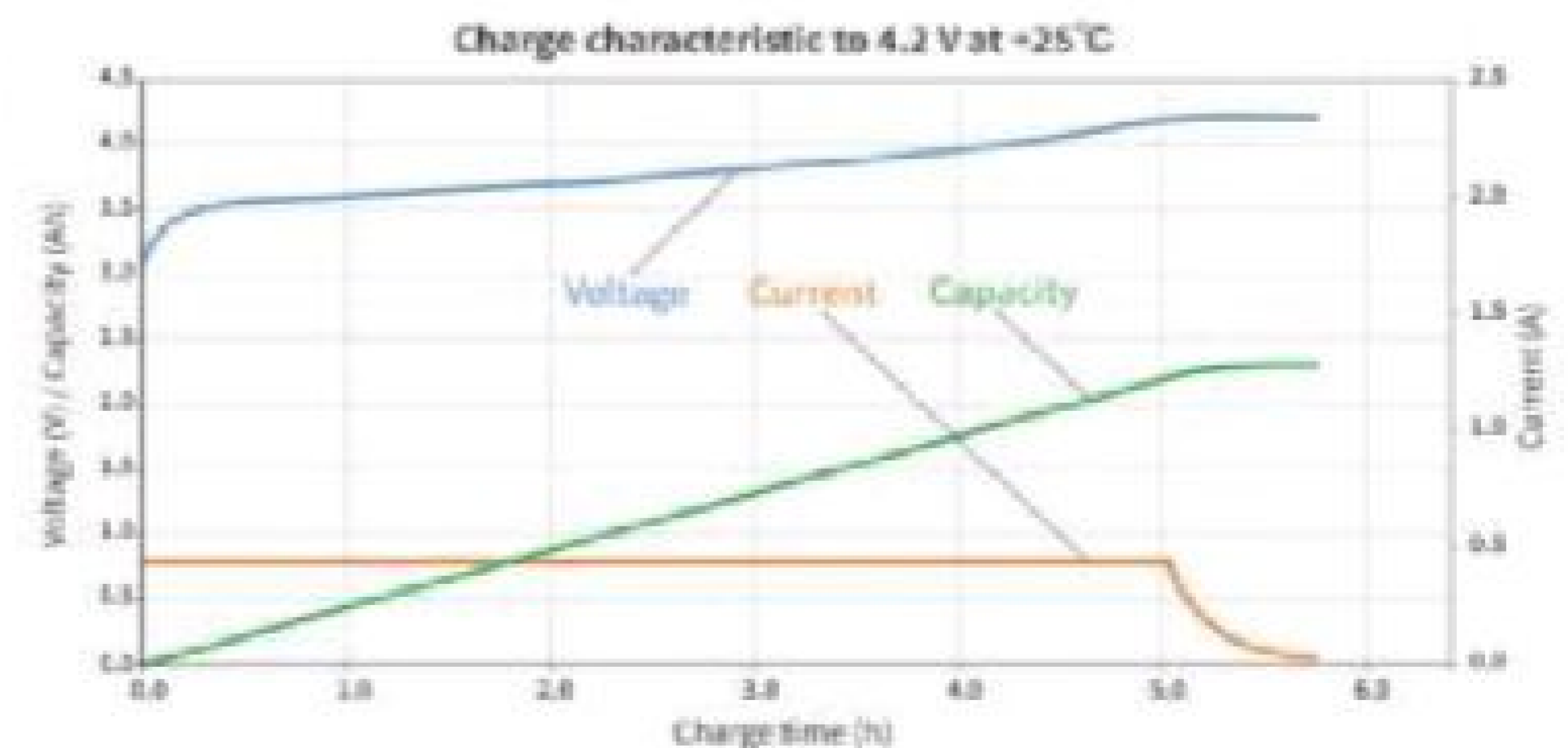
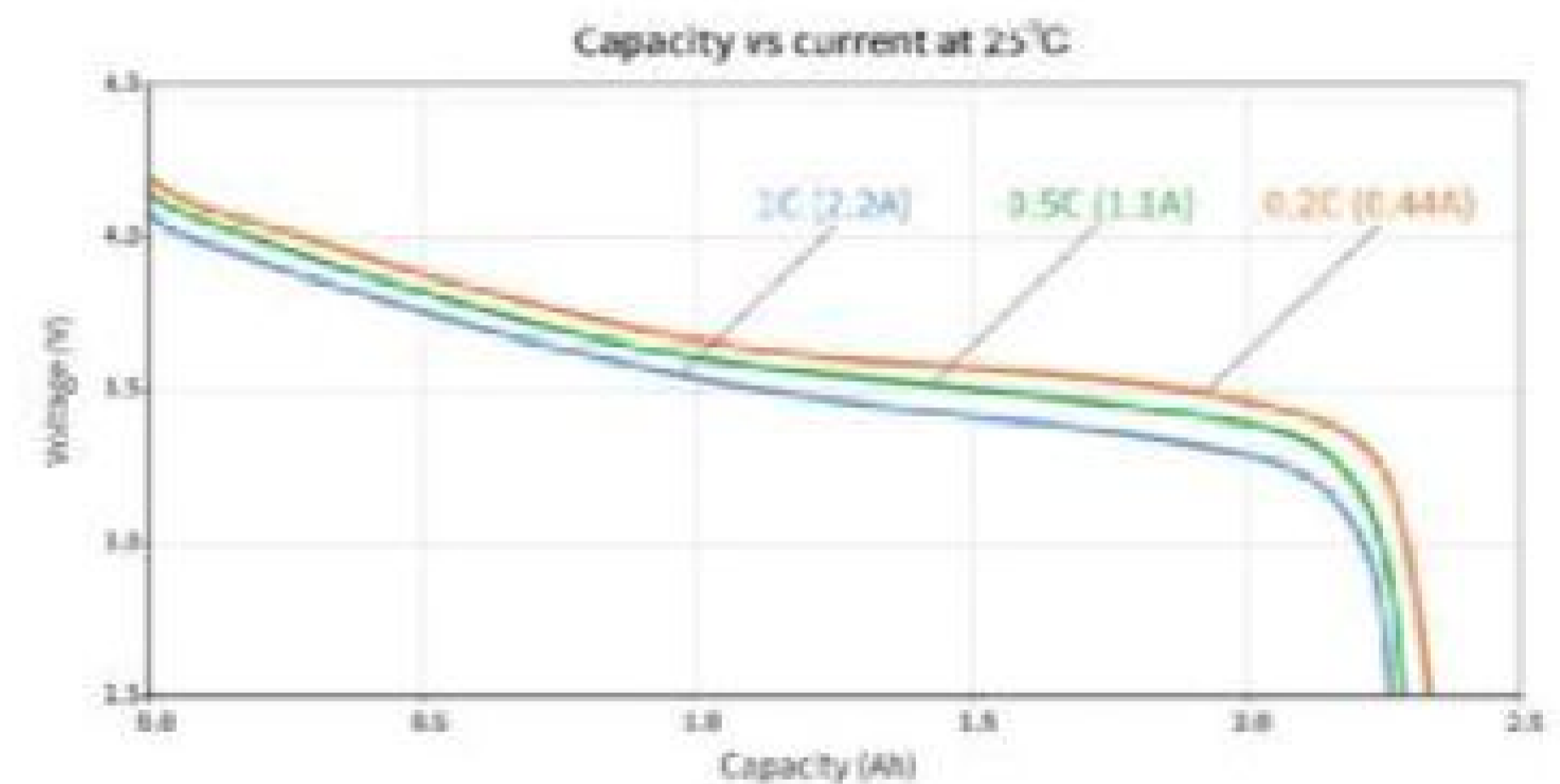
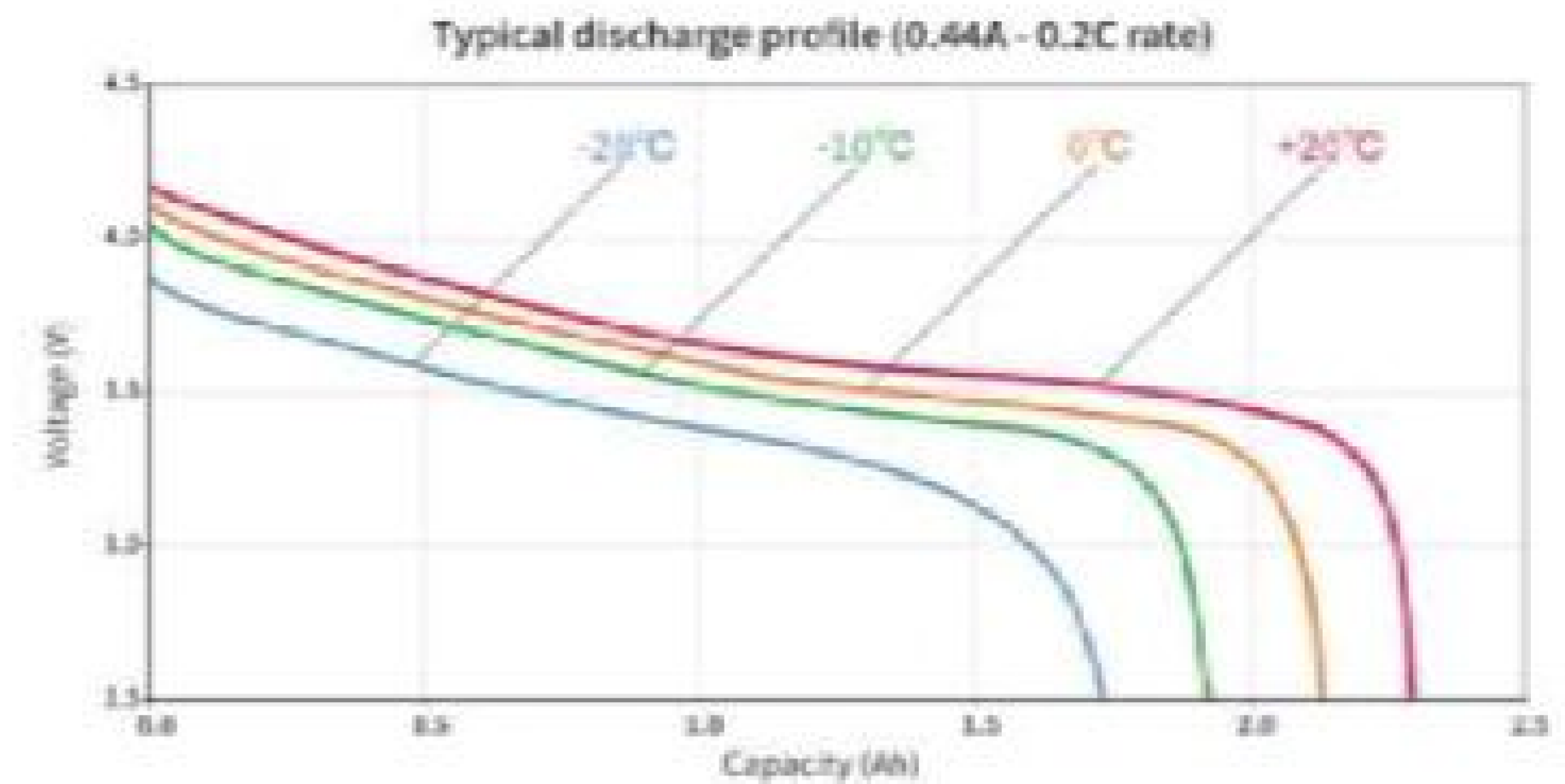
- Graphite-based anode (negative electrode)
- Nickel cobalt manganese cathode (positive electrode)
- With PTC and CID

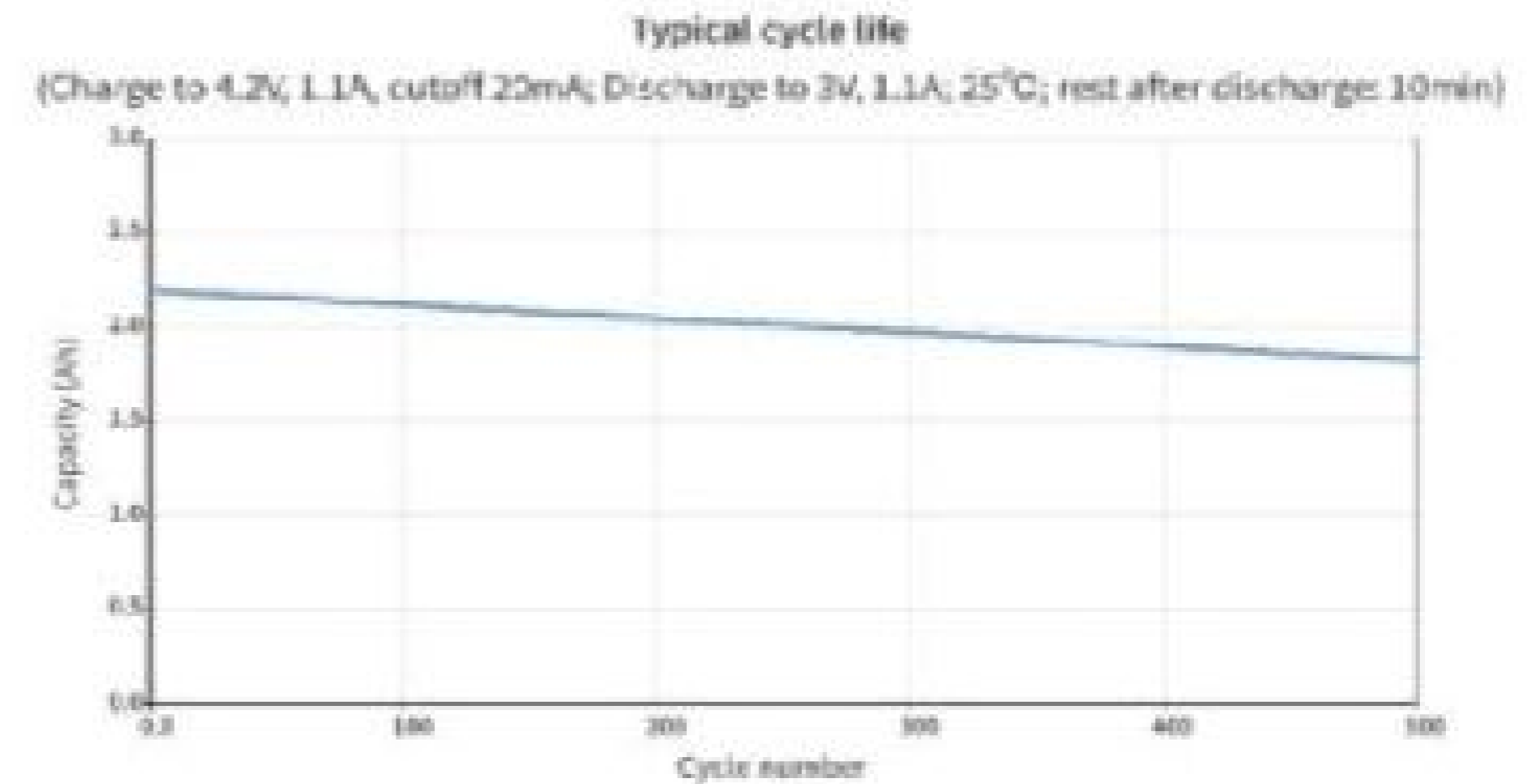
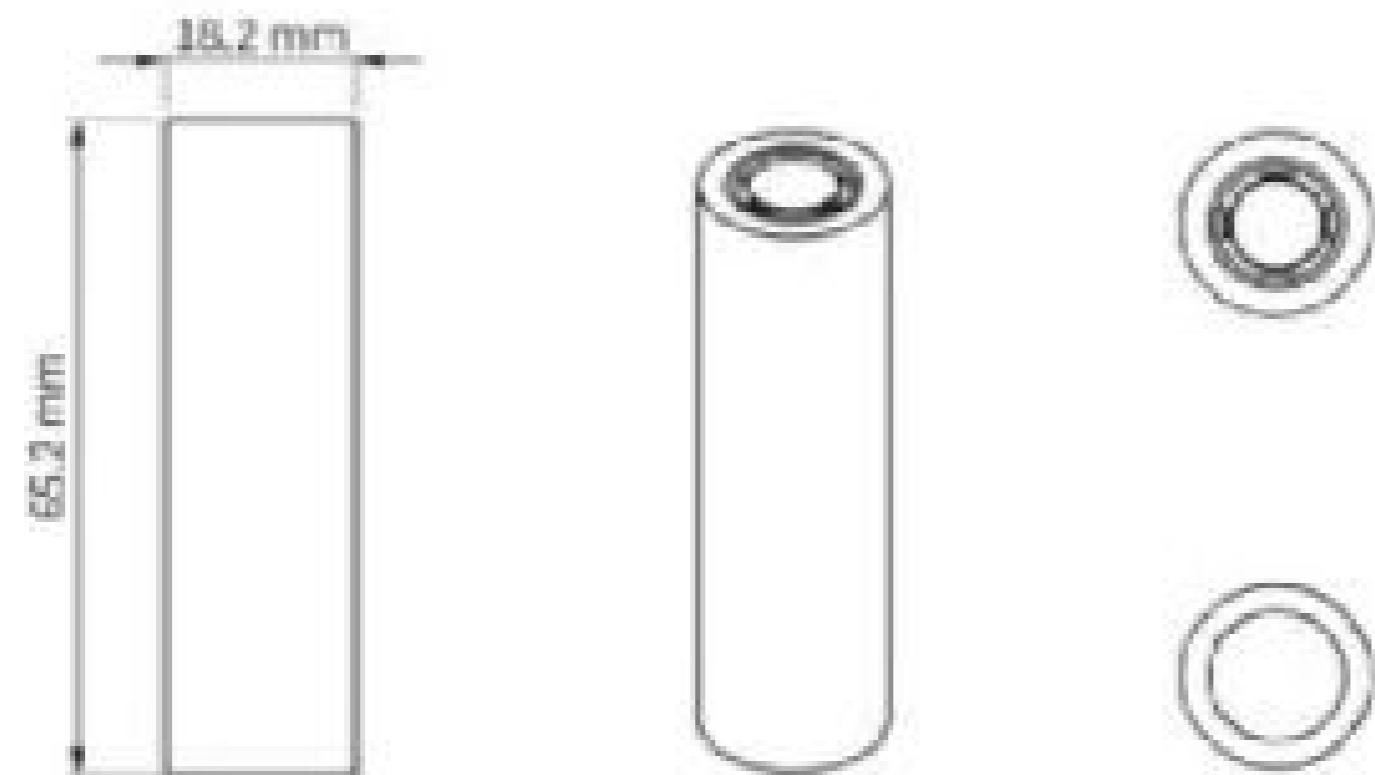
## When handling batteries

- Do not solder directly to battery terminals
- Do not disassemble
- Do not remove the protection circuit
- Do not crush, short-circuit, incinerate, immerse in any liquid, heat above +60°C and fire

## Transportation and storage

- Store in a dry place at temperature between 10°C to 30°C
- For long-term storage, keep the battery within a 50% state of charge
- Recharge the stored battery at least once every two months
- Shipping should be done according to UN3480, UN3481





## Battery pack

ESDO provides complete battery system designs.

Individual lithium-ion cells need to be mechanically and electrically integrated into battery systems to operate properly.

The battery system includes electronic devices for performance, thermal and safety management specific to each application.

Please contact ESDO for your specific applications requirements.