

# ICR18650 Series — Typical Specifications Overview

3.6–3.7 V nominal · 2000–3200 mAh · Ø18 × 65 mm · power tools, equipment packs & storage modules

About this document. Typical values for OEM evaluation and fitment reference. Final specifications, tolerances and test conditions are defined by the CMX controlled product datasheet, which is issued with your quotation on request.

## Specifications (typical)

| Parameter                | Specification                                       |
|--------------------------|-----------------------------------------------------|
| Series                   | CMX-ICR18650 (energy / high-rate / low-temperature) |
| Format                   | Ø18 × 65 mm cylindrical                             |
| Nominal voltage          | 3.6–3.7 V                                           |
| Capacity grades          | 2000 / 2200 / 2500 / 2600 / 3200 mAh                |
| High-rate grades         | 2200 mAh @ 5C · 2500 mAh @ 8C                       |
| Max continuous discharge | 2C–8C by grade                                      |
| Internal resistance      | ≤20–50 mΩ by grade (AC 1 kHz)                       |
| Charging                 | CC-CV to 4.20 V, 1C standard (1.6C on 2500 mAh)     |
| Charge temperature       | 0–45 °C                                             |
| Discharge temperature    | –20 °C to 60 °C                                     |
| Low-temperature series   | Discharge to –40 °C (2600 / 3200 mAh grades)        |
| Cycle life               | ≥ 70% of initial capacity after 300–500 cycles      |
| Certifications           | UN38.3, MSDS, IEC 62133-2, CB, RoHS                 |

## Certifications & compliance

Every production cell ships against the documentation compliance teams ask for first: UN38.3 (UN Manual of Tests and Criteria test summary required for lithium transport by air and sea), MSDS, IEC 62133-2 cell safety compliance, CB report and RoHS declaration.

## Safety testing

Production cells of this format are tested for over-discharge, overcharge, external short circuit, drop, heating and crush — all with no fire, no explosion, no leakage. A CID safety vent and optional protection circuit provide overpressure and overcurrent protection inside the sealed steel can.

## Documentation with every lot

Per-lot capacity, internal resistance (AC 1 kHz) and open-circuit voltage test data accompany each shipment, so incoming QC starts from data rather than sampling.

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Request the controlled datasheet and quotation: [sales@cmxbattery.com](mailto:sales@cmxbattery.com) — response within 24 hours.

CMX Battery · OEM/ODM lithium cell manufacturing · This overview is not a controlled document; the controlled product datasheet supersedes it where values differ.