

IFR32650 — Typical Specifications Overview

3.2 V nominal · 6000 mAh · Ø32.2 × 70.5 mm · ESS, telecom backup, light EV & solar storage packs

About this document. Typical values for OEM evaluation and fitment reference, consolidated from published manufacturer specifications for this format. 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
Model	IFR32650 (CMX-IFR32650-6000)
Chemistry	Lithium iron phosphate (LiFePO4 / LFP)
Nominal capacity	6000 mAh @ 0.2C discharge
Nominal voltage	3.2 V
Nominal energy	≈ 19.2 Wh
Dimensions	Ø32.2 × 70.5 mm
Weight	140 ± 5 g
End-of-charge voltage	3.65 V ± 0.05 V (CC-CV) — never 4.2 V
Standard charge current	0.2C (1.2 A), 0–45 °C
Maximum charge current	per datasheet
Discharge cut-off voltage	2.0 V
Continuous discharge	3C (18 A)
Pulse discharge	5C (60 A, limited to 2.0 V)
Internal resistance	≤ 25 mΩ (AC 1 kHz); industry range 8–25 mΩ
Charge temperature	0–45 °C
Discharge temperature	–20 °C to 60 °C
Cycle life	≥ 2000 cycles (80% retention)
Certifications	UN38.3, MSDS, IEC 62619, CE

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 62619 industrial storage safety compliance, CE declaration, and lot-level capacity, internal resistance (AC 1 kHz) and open-circuit voltage test data.

Safety testing

Production cells of this format are tested for over-discharge, overcharge, external short circuit, thermal abuse, drop, vibration and temperature shock — all with no fire, no explosion, no leakage. The LiFePO₄ chemistry's higher thermal runaway onset temperature removes propagation concern in multi-cell series strings. 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.

Request the controlled datasheet and quotation: 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.