

IFR26650 — Typical Specifications Overview

3.2 V nominal · 3000 mAh · Ø26.3 × 65.3 mm · engine starters, UPS blocks & solar storage strings

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
Model	IFR26650 (CMX-IFR26650-3000)
Chemistry	Lithium iron phosphate (LiFePO4 / LFP)
Nominal capacity	3000 mAh @ 0.2C–0.5C discharge
Capacity grades	3000 / 3300 / 3600 mAh class [CONFIRM]
Nominal voltage	3.2 V
Nominal energy	≈ 9.6 Wh
Dimensions	Ø26.3 × 65.3 mm
Weight	≈ 85 g
End-of-charge voltage	3.65 V ± 0.03 V (CC-CV) — never 4.2 V
Standard charge current	0.2–0.5C (600–1500 mA)
Maximum charge current	1C (3000 mA)
Discharge cut-off voltage	2.0 V
Continuous discharge	3C (9 A) standard grade
High-rate grade	10C continuous (30 A) [CONFIRM]
Pulse discharge	5C (15 A) standard; 20C (60 A) high-rate class [CONFIRM]
Internal resistance	≤ 25 mΩ (AC 1 kHz); ≤ 10–20 mΩ high-rate grade
Charge temperature	0–45 °C
Discharge temperature	–20 °C to 60 °C
Cycle life	≥ 80% capacity after 2000+ cycles at full DOD (3000–7000 at reduced DOD)
Certifications	UN38.3, MSDS, IEC 62133-2, CE, RoHS, REACH; UL1642/UL2054 on request [CONFIRM]

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, CE and RoHS declarations, and REACH documentation for EU-bound programs. UL1642 / UL2054 reports are available for North American programs on request.

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 and lowers risk in engine compartments and occupied spaces. 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.