

IFR32140 — Typical Specifications Overview

3.2 V nominal · 15000 mAh · Ø33 × 140 mm · ESS, AGV, UPS & telecom 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	IFR32140 — Lithium Werks AER32140m2A1 or CBAK 32140 (Grade-A cells)
Chemistry	Lithium iron phosphate (LiFePO4 / LFP)
Nominal capacity	15 Ah (C/5)
Nominal voltage	3.2 V
Nominal energy	≈ 48 Wh
Dimensions	Ø33.4 × 139.8 mm (Lithium Werks) / 32 × 140 mm (CBAK)
Weight	275 ± 5 g (Lithium Werks) / ≈290 g (CBAK)
End-of-charge voltage	3.65 V (float 3.45 V, Lithium Werks)
Standard charge current	≤C/2 (7.5 A); fast charge 1C (Lithium Werks)
Discharge cut-off voltage	2.0 V
Continuous discharge	Recommended ≤1C (15 A); maximum 3C (45 A)
Pulse discharge	5C (75 A, 30 s, Lithium Werks); 10C (60 s, CBAK)
Internal resistance	< 3 mΩ (Lithium Werks, AC 1 kHz)
Charge temperature	0–60 °C (Lithium Werks) / 0–45 °C (CBAK)
Discharge temperature	–10 °C to 60 °C (Lithium Werks) / –20 °C to 60 °C (CBAK)
Cycle life	> 3500 cycles (80% DOD, Lithium Werks)
Certifications	UL 1642, UN38.3, BIS (Lithium Werks); CE, RoHS, UN38.3, MSDS (CBAK)

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.