CMX 32140-15Ah LiFePO4 Cylindrical Cell

IFR32140 · 3.2 V · 15 Ah · 48 Wh — controlled product specification (CMX-SPEC-RD-002, rev A/00, effective 2024-06-30) · Grade-A, UN38.3 / IEC 62619 / CE / MSDS

Cell specification

Parameter	Specification
Model	IFR32140-15Ah (CMX-IFR32140-15Ah)
Chemistry	Lithium iron phosphate (LiFePO4 / LFP)
Rated capacity	15 Ah @ 0.5C (minimum 15 Ah, 2-h rate to 2.0 V, 25±3 °C)
Nominal voltage	3.2 V
Nominal energy	48 Wh
Dimensions (with PET film)	Ø33.2 ± 0.2 mm × 140 ± 0.3 mm
Weight	≤ 300 g
Internal resistance	≤ 3 mΩ (AC, 1 kHz)
Charge cut-off voltage	3.65 V (upper limit 3.7 V), CC-CV, taper-off 0.02C (300 mA)
Discharge cut-off voltage	2.0 V
Standard charge current	0.5C (7.5 A)
Standard discharge current	1C (15 A)
Max charge current	1C (25±3 °C, not for cycle life)
Max continuous discharge	2C (30 A) (25±3 °C, not for cycle life)
Max instantaneous discharge	3C (45 A, 10 s)
Cycle life (100% DOD)	≥ 2,000 cycles @ 80% retention (0.5C charge / 0.5C discharge)
Cycle life (0.5C charge / 2C discharge)	≥ 1,200 cycles @ 80% retention
Charge temperature	0–45 °C
Discharge temperature	−10–60 °C
Capacity by discharge rate	0.5C ≥ 100% · 1C ≥ 97% · 2C ≥ 94%
Capacity by temperature (0.2C)	25 °C ≥ 100% · 55 °C ≥ 98% · 0 °C ≥ 60% · −10 °C ≥ 40%
28-day storage (standard charge)	Residual capacity ≥ 90% · recovery capacity ≥ 95%
Certifications	UN38.3, IEC 62619, CE, MSDS, RoHS

Safety performance (standard charge; no fire, no explosion, no leakage)

Test	Condition	Result
Overcharge	1C to 1.5× cut-off voltage or 60 min, observe 1 h	Pass
Over-discharge	1C discharge to 90 min, observe 1 h	Pass
Short circuit	≤5 mΩ external resistance, max temperature < 130 °C	Pass
Crush	5±1 mm/s to 200 kN or 30% deformation, observe 1 h	Pass
Hot oven	5±2 °C/min to 130±2 °C, hold 30 min, observe 1 h	Pass
Low pressure	11.6 kPa, 6 h at room temperature	Pass

Ordering

MOQ 100 pcs · sample orders accepted · 15-day lead time · per-lot OCV / IR / capacity test data supplied with every shipment. Cells ship with PET film and bar-coded traceability (model, capacity, voltage, energy, production date, factory serial).

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