

CELL SPECIFICATION

TerraE INR 21700 68E

High-Energy Cell · 6.5 Ah · 24.4 Wh in 21700 format



KEY DATA

Nominal capacity	6,500 mAh (min. 6,500 mAh) @ 0.2C
Nominal voltage	3.6 V (4.20 V charge / 2.50 V cut-off)
Energy (typ.)	24.4 Wh
Internal resistance (ACR)	≤ 19 mΩ (typ. 13.2 mΩ, AC 1 kHz)
Standard charge	0.5C (3.25 A) CC/CV 4.2 V, cut-off 0.02C
Max. continuous charge	0.7C (4.55 A) @ 15–45 °C
Max. continuous discharge	2C (13.0 A) @ 0–35 °C
Operating temperature	Charge 0...+45 °C · Discharge –20...+60 °C
Cycle life	≥ 70% after 1,000 cycles (0.5C / 1C)
Dimensions / weight	Ø 21.65 × 70.95 mm · ≤ 75 g

E-MOBILITY · DRIVE SYSTEMS · ENERGY STORAGE · POWER- AND GARDENTOOLS · INDUSTRIAL · MEDICAL

TerraE INR 21700 68E

Cylindrical Lithium Ion Cell



1. RATE DISCHARGE (TYPICAL)

0.2C (1.3 A)	6.538 Ah · 100%
0.5C (3.25 A)	6.422 Ah · 98.2%
1C (6.5 A)	6.346 Ah · 97.1%
2C (13 A)	6.236 Ah · 95.4%
3C (19.5 A)	6.018 Ah · 92.0%

2. DISCHARGE CURRENT vs. CELL TEMPERATURE

70 °C > T ≥ 45 °C	0.5C (3.25 A)
45 °C > T ≥ 35 °C	1C (6.5 A)
35 °C > T ≥ 0 °C	2C (13.0 A)
0 °C > T ≥ -20 °C	1C (6.5 A)

3. PRODUCT HIGHLIGHTS

- One of the highest-capacity 21700 cells in series production (> 1 million pcs shipped)
- Independently characterised by About:Energy (Volt) and Batemo – models available
- Up to 30% fewer cells per pack vs. 5.0 Ah designs at equal energy

4. SAFETY, CONFORMITY & QUALITY

Safety tests per manufacturer specification: external short circuit, overcharge, over-discharge, 130 °C heating test, crush test – criteria: no fire, no explosion.

UN38.3 transport test and IEC 62133-2 documentation available on request.

TerraE declaration of conformity and full manufacturer specification provided with qualification.

5. ORDERING & CONTACT

TerraE GmbH · Hainer Weg 80 · 60599 Frankfurt am Main · Germany

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Reference manufacturer document: FEB 21700G/68E, Spec YDLD/PS-RD-072 A/02, 2026-03-06