

Ampace JP40 21700 Li-ion Battery – Technical Datasheet

Overview

The Ampace JP40 is a high-performance lithium-ion cell engineered for demanding high-drain applications. With a powerful 4000mAh capacity and advanced discharge capabilities, this cell is ideal for power tools, electric vehicles, energy storage systems, and custom battery packs requiring sustained output and durability.

Specifications

Attribute	Specification
Model	Ampace JP40
Cell Size	21700
Nominal Capacity	4000mAh
Nominal Voltage	3.7V
Voltage Range	2.5V – 4.2V
Max Continuous Discharge	60A (No Temp Cut-off) / 70A (With Temp Cut-off)
Pulse Discharge (5s)	140A
Standard Charge Current	4A
Fast Charge Current	8A
Cycle Life	≥2400mAh after 600 cycles @30A / ≥2400mAh after 400 cycles @40A
Weight	Max 70g
Dimensions	Max Ø21.31mm x 70.42mm
Operating Temp (Discharge)	-30°C to 75°C
Operating Temp (Charge)	0°C to 60°C

Attribute	Specification
Storage Temp (1 Month)	5°C – 45°C
Storage Temp (6 Months)	0°C – 45°C
Storage Temp (12 Months)	20°C – 25°C
Certifications	UL1642, CB62133, IEC62619, PSE, KC, GB 32141