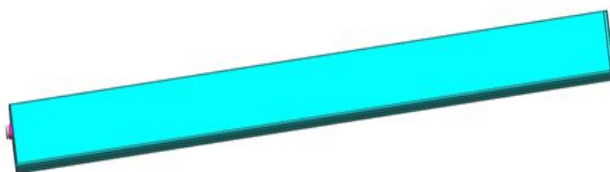


C112F Battery Product Specification

❖ Fudi battery cell model: C112F

❖ Battery size and weight

Basic battery dimensions & weight	
length	1012±0.7mm
width	90 ± 0.3 mm
thickness	15.75±0.3mm
weight	3.318±0.04 Kg



❖ battery characteristics

- Lithium iron phosphate is used as the cathode material.
- Exhibits excellent safety characteristics and an exceptionally long cycle life
- Excellent thermal performance with a wide operating temperature range for batteries
- High energy density, environmentally friendly

❖ battery certification implementation standard

- GBT31484-2015 Requirements and Test Methods for Cycle Life
- "GBT31486-2015 Electrical Performance Requirements and Test Methods"
- GB/T 31485-2015 Safety Requirements and Test Methods
- 《C112F BOM》
- C112F Periodic Testing Standard
- C112F Structural Components Standard

❖ Cell Basic Information

Basic battery parameters		
nominal voltage	3.22 V	40°C, 1/3C, BOL
Monomer capacity (1/3C)	181.3 Ah	25±3°C, 1/3C, BOL
operating voltage range	2.0~3.8V	SOC range of
application	0~100%	
maximum continuous charging current	344 A	25±3°C

maximum continuous discharge current	344A	25±3°C
DCIR@25%SOC	10s, 1.5C, 0.7-1.2mΩ	
Shipped SOC	20%~30%	

❖ Battery Safety

- Battery operation & storage

Battery Safety	
Charging ambient temperature	-20~+55°C
Discharge ambient temperature	-30~+60°C
Storage ambient temperature	-40 ~+45°C (≤ 14 days, 20~65% SOC)
	-20 ~+30°C (≤ 6 months, 20~65% SOC)
Storage humidity	≤95%

- Battery Protection & Monitoring

No.	Project	Condition
1	Charge cutoff voltage	3.80 V/Cell
2	Discharge cutoff voltage	2.00 V/Cell

❖ Security warning

- Do not place the battery in fire or heat it in any other way.
- Do not short-circuit or install with incorrect polarity to avoid mechanical or electrical damage.
- Do not mix batteries from different manufacturers or models.
- Do not disassemble or modify the external structure of the battery, and avoid applying external force to impact or puncture the battery.
- Do not place the battery in water, seawater, strong acidic, or strong alkaline substances.
- Avoid direct sunlight and high temperature/high humidity (temperature ≤65°C, humidity ≤95%).
- When handling batteries, rubber or latex gloves must be worn.
- When charging or discharging a battery, ensure it has voltage, current, and temperature monitoring and protection.
- In the event of battery leakage, smoking, or damage, immediately stop using it and contact our company for assistance.