

File Name:	C16-200Ah specification		Item No.	BYDC16
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# C16-200Ah Cell specification

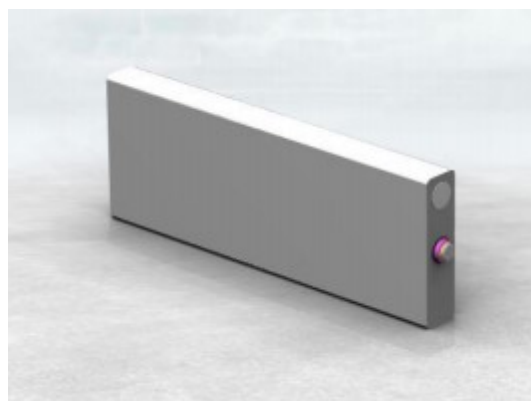
## ❖ Model: C16

## ❖ C16 Characteristics

- LFP is used as the cathode material
- With excellent safety characteristics and long cycle life
- Good temperature performance, wide operating temperature range
- High energy density, environmentally friendly

## ❖ Certifications

- GBT31484-2015
- GBT31485-2015
- GBT31486-2015

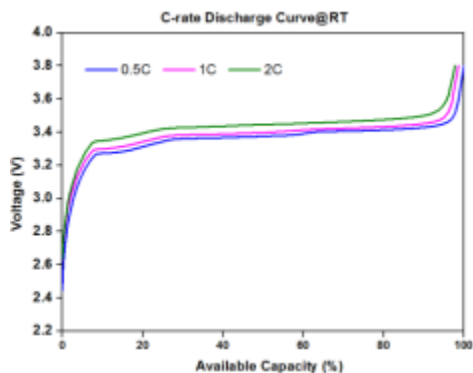


Basical parameter		Basical size&weight	
Nominal voltage	3.20 V	Length	416.0 mm
Rated capacity	200Ah	Width	145.5 mm
Rated energy	640 Wh	Thickness	37.0mm
Standard charge method	CC	Weight	4.53 Kg
Standard charge current	44A @ 25°C		
Max continuous charge current	220A @ 25°C	<b>Abuse test(GB31485)</b>	<b>Test result (EUCAR)</b>
Charging cut-off voltage	3.80V/Cell	Extrusion	Pass-L4a
Discharge method	CC	Over-charge	Pass-L4a
Discharge cut-off current	2.00V/Cell	Over-dicharge	Pass-L2
Standard discharge current	44A @ 25°C	Short circuit	Pass-L2
Max continuous discharge current	300A @ 25°C	Boiler heat	Pass-L4a
Max charge power	1500W (BOL/23°C/50%SOC/10S)		
Max discharge current	2000W (BOL/23°C /50%SOC/10S)		
Delivery voltage	3.25V~3.35V		
Delivery SOC	30%~60%		

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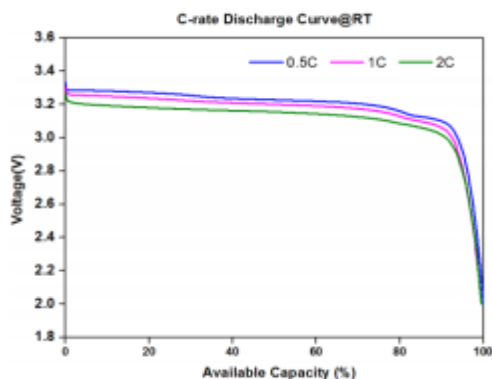
### ❖ Various charging rate

Discharge the battery to 2.0V with 0.2C, then charge the battery to 3.80V with different currents, at  $23\pm 2^{\circ}\text{C}$ .



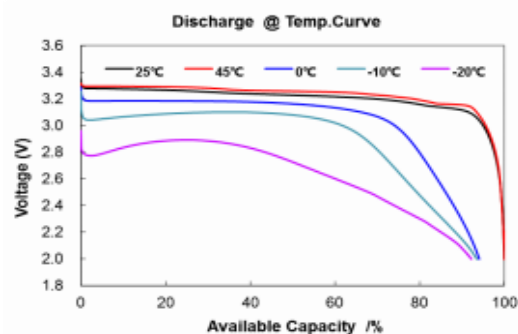
### ❖ Various discharge rate

At  $23\pm 2^{\circ}\text{C}$ , charge the battery to 3.8V with 0.5C, then discharge the battery to 2.0V with various currents.



### ❖ Discharge in different environment temperature

Store battery in different assigned temperature environment for 8hrs after charge it with 0.5C at  $23\pm 2^{\circ}\text{C}$ , discharge to 2.0V with 0.5C, after discharging, rest and restore to normal temperature, then continue the next condition test.



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## ❖ Safty in use

### ▪ Operating & storage

Charge Temp.	0~+50℃
Discharge Temp.	-20~+55℃
Storage Temp.	-20~+30℃ (<3 M, 20~60% SOC)
Long term storage T	-20 ~+30℃ (<1Y, 30~60% SOC)
Storage Humidity	5%~95%
Altitude	≤4000m

### ▪ Protection & Monitoring

To ensure battery life and safety, the charger and protection circuit should monitor the battery during charging and discharging:

No.	Item	Creteria
1	End-off-charge voltage	3.80 V/Cell
2	End-off-discharge voltage	2.00 V/Cell
3	Level 1 overcharge protection voltage	3.81V~3.90 V/Cell
4	Level 2 overcharge protection voltage	3.91V~4.00 V/Cell (建议值)
5	Overcharge resuming voltage	3.50V~3.60 V/Cell
6	Level 1 overdischarge protection voltage	1.90V~1.99 V/Cell
7	Level 1 overdischarge protection voltage	1.80V~1.89 V/Cell (建议值)
8	Overdischarge resuming voltage	2.50V~2.80 V/Cell
9	Overheat alarm	56℃
10	Overheat protection	60℃

### ▪ Safety warning

- Do not put the battery into fire or heat the battery in other ways
- Do not short-circuit or install with incorrect polarity to avoid mechanical or electrical abuse
- Do not mix batteries of different manufacturers or models
- Do not disassemble or change the external structure of the battery. Do not hit or puncture the battery with external forces
- Do not put the battery into water, seawater, strong acid, or strong alkaline substances
- Avoid direct sunlight, high temperature and humidity (temperature ≤65℃, humidity ≤95%)
- Wear rubber gloves when operating the battery
- When charging or discharging a battery, ensure that the battery has voltage, current, and temperature monitoring and protection
- In case of leakage, smoke or damage, stop using the battery immediately and contact us for treatment