



VTC POWER CO.,Ltd

VER: A0

Add:Room 623,No.29 Yeqin 1st Road,Longgang District,Shenzhen
City,Guangdong Province,China

TEL: +86 0755 32937425

Mail: info@vtcpower.com

DATE:

2020/06/12

The Lithium iron phosphate battery Specification

MODEL:VTC-12.8V6AH

SN:VTC4SW6JB10

Prepared By/Date	Checked By/Date	Approved By/Date
Zhang Ping	Xiang Kui	Zhang Fei

Customer Approval	Signature	Date
	Company Name:	
	Company Stamp:	



1. Scope

This specification is applied to the reference battery in this Specification that manufactured by VTC Power Co.,Ltd.

2. Product Specification

Table 1

No.	Item	Parameter		Remark
1	Nominal Voltage	12.8V		3.2V/single cell
2	Rated Capacity	Typical	6AH	Standard discharge (0.5C) after Standard charge (0.2C)
		Minimum	5.9Ah	
3	Charging Voltage	14.6V		3.65V/single cell
4	Charging Mode	C.C/C.V.		Constant Current /Constant Voltage
5	Voltage at end of Discharge	10V		Discharge Cut-off Voltage
6	Rated Charge Current	$\leq 3A$		Charging Current 3A
7	Maximum Continuous Charge Current	$\leq 6A$		Ambient temperature 10-45℃
8	Internal Impedance	$< 150m\Omega$		
9	Rated Discharge Current	$\leq 6A$		Discharging Current 6A
10	Maximum Continuous Discharge Current	$\leq 10A$		Not more than 1H
11	Overcharge Voltage	$3.75 \pm 0.05V$ /Cell		Voltage per single cell
12	Over Discharge Cut Off Voltage	$2.10 \pm 0.1V$ /Cell		Voltage per single cell



VTC POWER CO.,Ltd

VER: A0

Add:Room 623,No.29 Yeqin 1st Road,Longgang District,Shenzhen City,Guangdong Province,China
TEL: +86 0755 32937425 Mail: info@vtcpower.com

DATE:
2020/06/12

Continuous the table 1

13	Over Current	Over current: 50A	Overcurrent delay: 50-200ms
14	Short Circuit	Detection condition	Exterior short circuit
		Release condition	Cut short circuit
15	Cell balance Current	25-35mA	
16	Bleed Start Point	14.4 ± 0.1	
17	Temperature Protection	$65 \pm 5^{\circ}\text{C}$	High temperature
18	Operation Temperature Range	Charge: $0 \sim 45^{\circ}\text{C}$	$60 \pm 25\%$ R.H. Bare Cell
		Discharge: $-20 \sim 60^{\circ}\text{C}$	
19	Storage Temperature Range	Less than 1 year: $-20 \sim 25^{\circ}\text{C}$	$60 \pm 25\%$ R.H. at the shipment state
		less than 3 months: $-20 \sim 40^{\circ}\text{C}$	
		Less than 7 day : $-20 \sim 65^{\circ}\text{C}$	
20	The battery pack Dimension	Length: $151 \pm 2\text{MM}$	Initial Dimension
		Width: $65 \pm 2\text{MM}$	
		Height: $96 \pm 2\text{MM}$	
21	Cells	32700-3.2V6AH	Lifepo4 battery
22	Connection Type	4S1P	Cells Without Plastic Bracket
23	Weight(重量)	$\leq 1.06\text{KG}$	
24	Waterproof grade	IP55	
25	Cycle Life	Carry out 3000 cycle	Higher than 80% of the Initial Capacities of the Cells



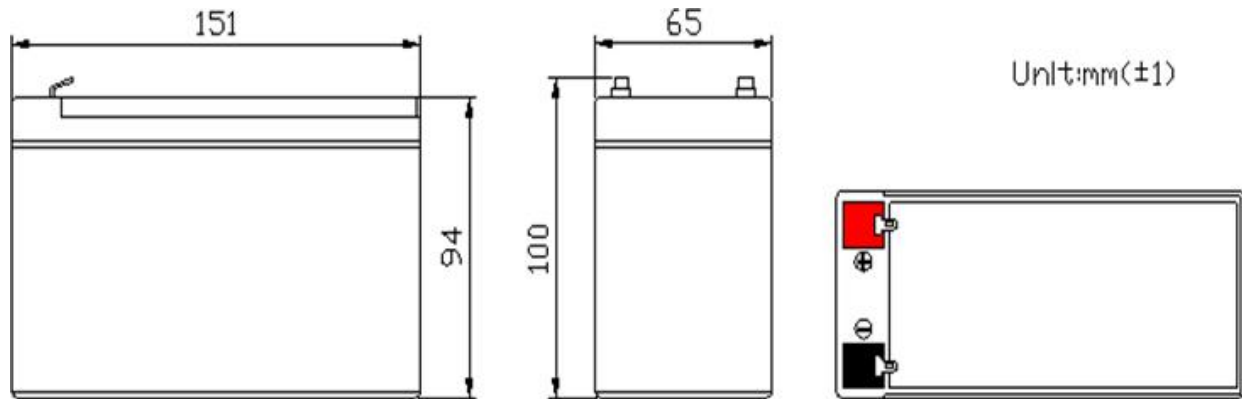
VTC POWER CO.,Ltd

VER: A0

Add:Room 623,No.29 Yeqin 1st Road,Longgang District,Shenzhen
City,Guangdong Province,China
TEL: +86 0755 32937425 Mail: info@vtcpower.com

DATE:
2020/06/12

3. Dimensions



4. Product details

