



Specification Approval Sheet(Battery)

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Model EP7570260

Prepared by	Checked by	Approved by	Confirmed by QA
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Customer Approval	Signature	Date
	Company Name	
	Company Addrss	



Ecity Power Co., Ltd. Product Specification

1. Preface

The product specification covers the general performance, test method and quality requirements for the rechargeable LiFePO4 lithium ion battery, EP7570260, manufactured and supplied by Ecity Power Co., Ltd.



EP7570260

2. Model : EP7570260

3. Specifications

No.	Items	Specifications
1	Charging Voltage	DC3.65V
2	Typical Voltage	3.2V
3	Normal Capacity	10000mAh@ 0.2C Discharge
4	Minimum Capacity	9800mAh@ 0.2C Discharge
5	Charging method	CC(Constant Current)/ CV(Constant Voltage) CC () / CV ()
6	Maximum charge current	10 Ampere 10
7	Maximum discharge current	20 Ampere(Continuous), 60 Ampere(10 Second Pulse) 20 60 10
8	Lifecycle(Minimum)	2000cycles, Capacity 7500mAh 2000 7500mAh
9	Discharge cut-off voltage	2.40V
10	Operating temperature	Charge Temperature Range: 0°C ~ 45°C 0°C ~ 45°C Discharge Temperature Range: -20°C ~60°C -20°C ~ 60°C
11	Storage temperature	Short Period(1 month) 10°C ~ 45°C Long Period(6 months) 10°C ~35°C (1 month) 10°C ~ 45°C (6 months) 10°C ~35°C
12	Energy Density	Gravimetric Volumetric
13	Power Density(100%SOC,18s peak)	Gravimetric Volumetric
14	Battery Weight	Approx. 280g 10g : 280g 10g
15	Battery Dimension(not including terminals) ()	Thickness 7.5mm Wide 70mm Length 260mm
16	Initial Internal Impedance	<12mΩ

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4. Battery Performance Criteria

4.1 Reliability Test Procedure and Criteria

No.	Items	Test Method and Condition	Criteria
1	Appearance	Visual	No Defect and Leakage
2	Dimension	Caliper	As item 6
3	Weight	Scale	As item 3.14 3.14
4	Fully Charged	CC/CV (Constant Current / Constant Voltage)	Constant Current: 1C Constant Voltage: 3.65 V
5	Battery Voltage	As of shipment., Voltmeter	3250 -3350 mV
6	Internal Impedance	Impedance meter at 1kHz AC 1kHz	As item 3.16 3.16
7	Initial Capacity	After fully charged discharge at 0.2C current until the voltage reaches 2.1V. 0.2C 2.1V	As item 3.4 3.4
8	Cycle Life	Charge: CC/CV CC at 0.2C CV at 3.65 V Cut-off Current: 0.05C. Discharge: 0.2C to 2.1V.	As item 3.8 3.8
9	Self-discharge	After fully charged, store the Battery under the condition as No.4.4 for 30days, then measured the capacity with 0.2C till 2.1V No.4.4 30 0.2C 2.1V	Remaining capacity > 90% > 90%
10	Operational Temperature Characteristics	After fully charged maintain the cell at different temperature for 60 minutes and then perform 0.2C discharge until the voltage reaches 2.1V. 60 0.2C 2.1V	Remaining capacity -20°C : >70% 0°C : >90% 40°C: 100% 75°C: 100%

6. Outline Dimension (all unit in mm, not in scale)

( mm;)

Item	Description	Dimensions
T	Thickness	7.5mm max
W	Width	70mm max
L	Length	260 mm max

