

EV Power Australia Pty Ltd

Datasheet for Lithium-ion LiFePO4 Rechargeable Cell - 32700

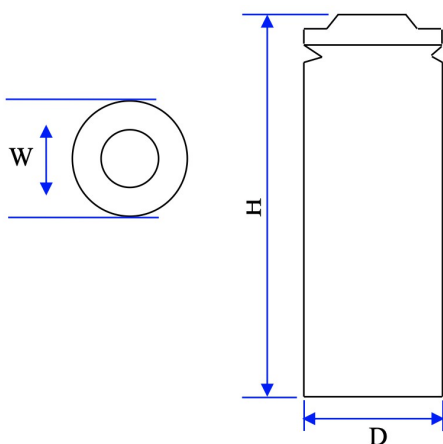
Measured in accordance with GB/T18287-2013, UL1642 and CE61960 technology standards.

Specification

Item	Specification	Remark
Nominal Capacity	6000mAh	0.2 C ₅ A Discharge
Nominal Voltage	3.2V	
Discharge Cut-off Voltage	2.0V	0.2 C ₅ A Discharge
Charge Limited Voltage	3.65±0.03V	0°C~45°C
Standard Charge Current	0.2 C ₅ A	0°C~45°C
Standard Discharge Current	0.2 C ₅ A	-10°C~ +60°C
Rapid Charge Current	0.5C ₅ A	0°C~45°C
Rapid Discharge Current	0.5C ₅ A	-10°C~ +60°C
Max. Discharge Current	3C ₅ A	Limited Voltage 2.0V
(Max. Pulse Discharge Current)	5C ₅ A	Instantaneous (mS)
Internal Impedance	≤10mΩ	At AC 1kHz
Weight	41g	±2g
Storage Temperature 1 Month	-20°C ~ 45°C	
Storage Temperature 3 Months	-20°C ~ 35°C	
Storage Temperature 1 Year	-20°C ~ 25°C	

EV Power EVH Battery 32700 Cell Datasheet

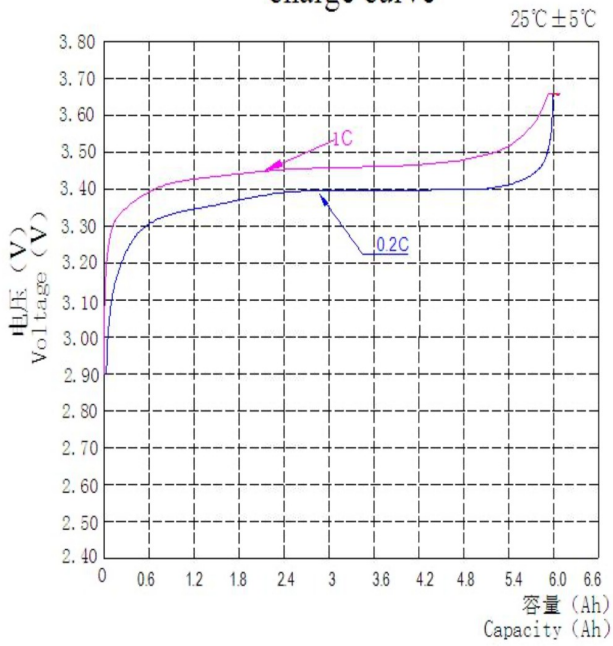
Item	Test Condition	Specification
Standard Charge	The "Standard Charge" means charging with constant current 0.2C5 to 3.65V, then charging with constant voltage 3.65V to 0.01C 5 under 20±5 , °C charging time will not more than 8h.	
Nominal Capacity	The capacity means the discharge capacity of the cell, which is measured with discharge current 0.2C5A to cut-off voltage at 2.0V at 20±5°C rest for 30 minutes after the Standard Charge.	Nominal Capacity ≥6000mAh
Cycle Life	After 2000 cycles of charge and discharge, the discharge capacity is measured with 0.2 C5A discharge current and 2.0V cut-off voltage.	≥80%Nominal Capacity
Rate Capacity 1	The discharge capacity is measured with 0.2 C5A discharge current and 2.0V cut-off voltage after full charged.	≥100%Nominal Capacity
Rate Capacity 2	The discharge capacity is measured with 0.5 C5A discharge current and 2.0V cut-off voltage after full charged.	0.5C/0.2C=96%
Rate Capacity 3	The discharge capacity is measured with 1 C5A discharge current and 2.0V cut-off voltage after full charged.	1C/0.2C=93%
Rate Capacity 4	The discharge capacity is measured with 3 C5A discharge current and 2.0V cut-off voltage after full charged.	3C/0.2C=85%
Temperature Performance	discharged at 0.2C5A to 2.0 V.	-20°C ≥ 40% -10°C ≥ 60% 0°C ≥ 85% 25°C ≥ 100% 60°C ≥ 98%
Short Circuit	Each test sample cell is to be short-circuited by connecting the positive and negative terminals of the cell with a Cu wire having a maximum resistance load of 80±20mΩ.	No fire No explosion;Max.Temp.of battery surface should not exceed 150°C



Width = 32mm, Height = 70mm

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charge curve



Diploid discharge curve

