



Product Introduction

Godsend's 3.2V 20Ah LiFePO4 battery use internationally mature cylindrical structure design. Great performance and conformity are secured by strict quality control process and updated equipments. It is proper for electric lawn mower, electric boat and ship, electric scooter use.

Specifications

Item	Specification
Model	GSF46160M-20
Rated capacity	20Ah
Rated voltage	3.2V
Standard charge current	1C (20A)
Max. continuous discharge current	10C (200A)
Max. instant discharge current	15C (300A)
Impedance	$\leq 1.5\text{m}\Omega$
Weight	570 \pm 10g
Dimensions	Height: 178 \pm 1mm Diameter: 46 \pm 0.5mm
Operating temperature	Charge: -20~45 $^{\circ}\text{C}$ Discharge: -20~60 $^{\circ}\text{C}$
Storage temperature	-10~35 $^{\circ}\text{C}$

Characteristic

- Deep cycle performance - over2000 cycles(1C rate, 100%DOD)
- Low Self-discharge - Less than 5% per 3 months
- Excellent abuse tolerance under thermal shock, mechanical vibration or other circumstances
- Most durable and reliable energy source
- Steady output voltage
- The cell can be charged under -20 $^{\circ}\text{C}$ with our BMS

Safety performance

Item	Test name	Result
1	Over charge	No fire,no explosion
2	Over discharge	No fire,no explosion,no leakage
3	Short Circuit	No fire,no explosion
4	Drop	No fire,no explosion,no leakage
5	Hot oven	No fire,no explosion



6	Crush	No fire,no explosion
7	Needle puncture	No fire,no explosion
8	Sea water	No fire,no explosion
9	Thermal Cycle	No fire,no explosion,no leakage
10	Low pressure	No fire,no explosion,no leakage

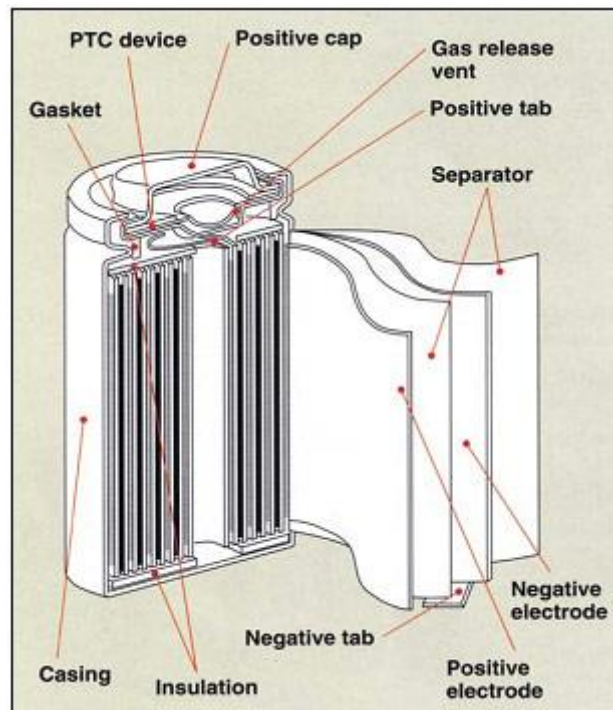


Figure 1: Cross section of a lithium-ion cylindrical cell

The cylindrical cell design has good cycling ability, offers a long calendar life and is economical.
Source: Sanyo