



**ABYSS  
BATTERY**

POWER YOUR PURSUIT.

**GROUP 8D**

**72V 60AH**



**DATA SHEET**

[WWW.ABYSSBATTERY.COM](http://WWW.ABYSSBATTERY.COM)







# MODELS INCLUDED:

**G8D-72V60Ah**

72V 60Ah LiFePO4 Battery

ELECTRICAL SPECIFICATIONS

	G8D-72V60	
Nominal Voltage	76.8V	
Nominal Capacity	60Ah	
Parallel Connection	Max. 4units	
Serial Connection	No	
BMS	24S150A	
Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance, Low temp	
Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD	
Self Discharge	Less than 3% per month	
Charge Efficiency	100% @0.2C	
Discharge Efficiency	98-100% @1C	

CHARGE SPECIFICATIONS

Charge Voltage	86.4V	
Standard Current	12A	
Fast Current	30A	

DISCHARGE SPECIFICATIONS

Standard Current	12A	
Max. Con. Current	60A	
Peak Current	500A(300ms)	
Cut-off Voltage	60V	

MECHANICAL SPECIFICATIONS

Dimensions (mm)	521×267×220mm (Group 8D)	
Approx Weight(KG)	37.5	
Terminal Type	M8	
Case Color/material	Black Plastic case (ABS)	
IP Rating	IP65	
Cell Type	Cylindrical LiFePO4 cell	
Cell holder	Yes	

TEMPERATURE SPECIFICATIONS

Charge Temp	0°C to 55°C	(32°F to 131°F)
Discharge Temp	-20°C to 60°C	(-4°F to 140°F)
Storage Temp	-5°C to 45°C	(23°F to 113°F)

## KEY POINTS FOR QUALITY CONTROL:

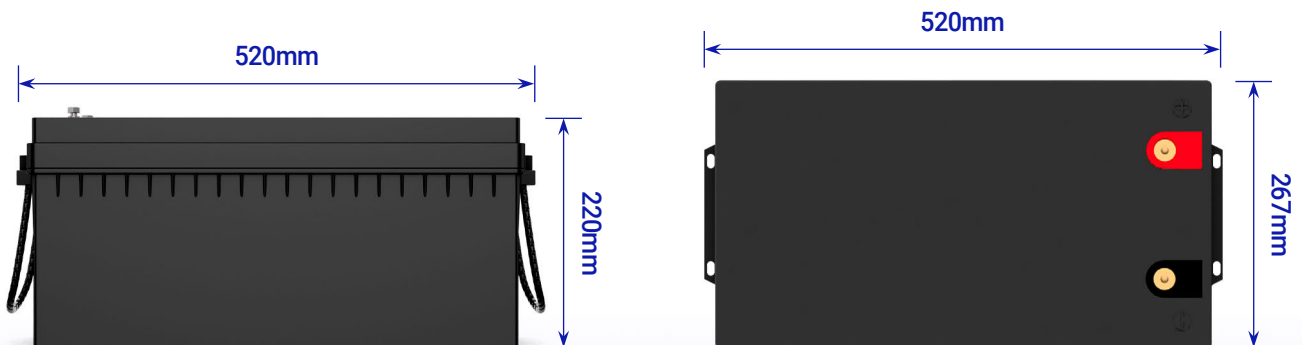
- Cell match:**  
 More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cells welding:**  
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**  
 All battery packs are 100% cycle tested (Fully Discharged→Fully Charged→Fully Discharged→ 60% Charged) before package and all test reports are stored.
- Unique tracking number:**  
 All battery packs are lasered an unique number on the case side for quality tracking.

## CERTIFICATIONS:

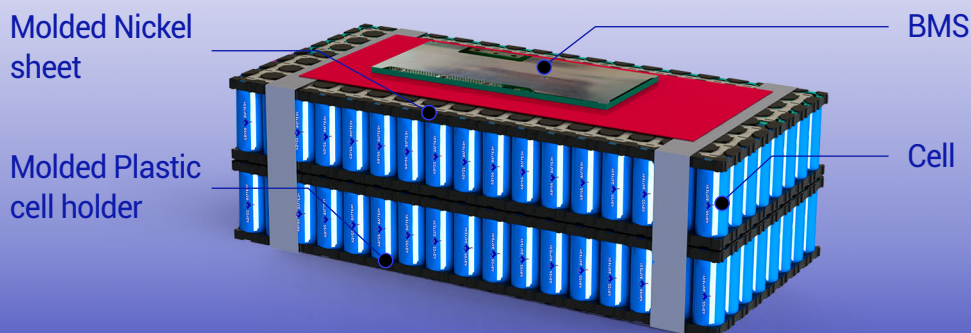
UL 1642 (Cell)	CE (Pack)
IEC62133 (Cell)	UN38.3 (Cell/ Pack)
IEC62619 (Cell)	ROHS (Cell)



## DIMENSIONS:

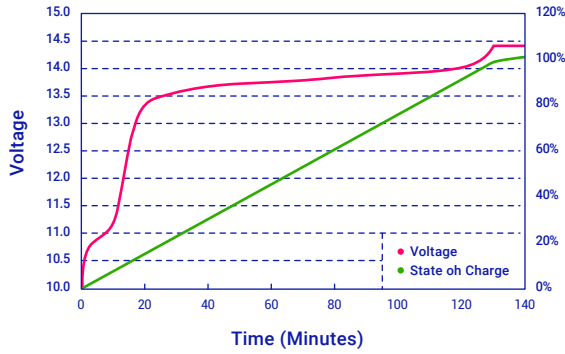


## INTERNAL STRUCTURE:

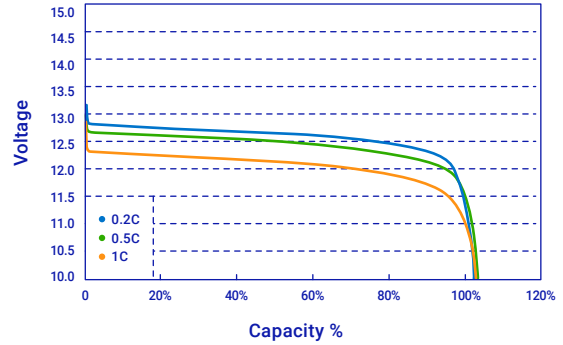


# CHARACTERISTICS CURVE:

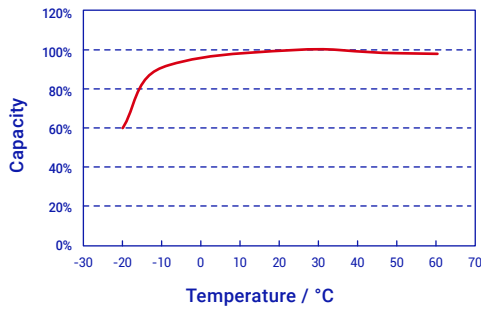
**CHARGING CHARACTERISTICS (0.5C @25°C)**



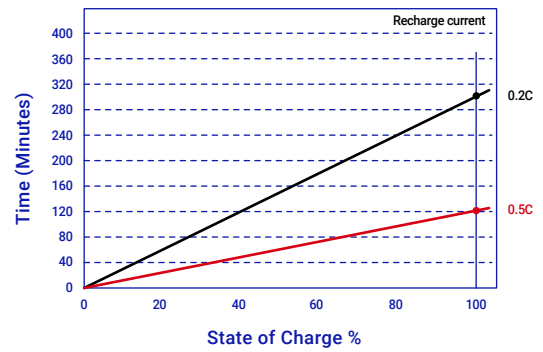
**DISCHARGING CHARACTERISTICS (0.2C, 0.5C, 1C @25°C)**



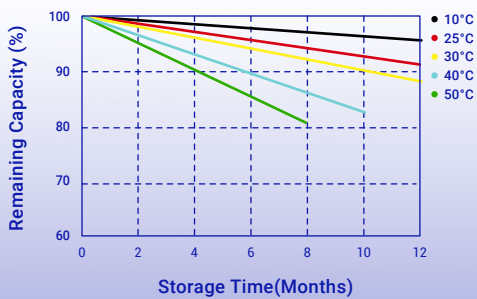
**DIFFERENT TEMPERATURE CAPACITY CURVE**



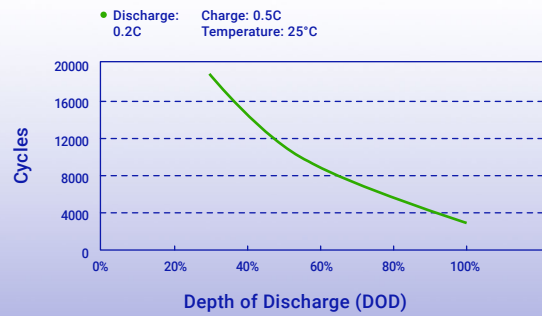
**TYPICAL CHARGE TIME CURVE**



**DIFFERENT TEMPERATURE SELF DISCHARGE CURVE**



**DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE**



## KEY BENEFITS:

- Higher qualified cylindrical cell:**  
 UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.
- Stronger BMS:**  
 Equip with 150A BMS, can deliver more power during device's uphill operation, smoother your task.
- More stable and firm internal structure:**  
 Cell holders can well protect and separate the cells to avoid any circuit short risk caused by vibration or impact or over current, and improve the heat dissipation.
- Higher capacity based on same size:**  
 Based on Group 8D size and cell holder, our capacity 60Ah is 30% higher than others without much higher weight.

## MARKET APPLICATIONS:



GOLF CART



MARINE



RV



CLEANING



LIGHT EV



ENERGY STORAGE



ROBOTICS

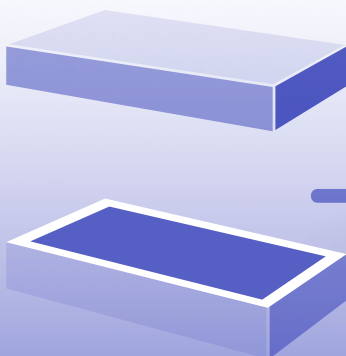


LIGHTING

**PACKAGE:** 20' CONTAINER=10PALLET=250CARTONS=250UNITS  
40' CONTAINER=20PALLET=500CARTONS=500UNITS

1 CARTON=1 UNIT

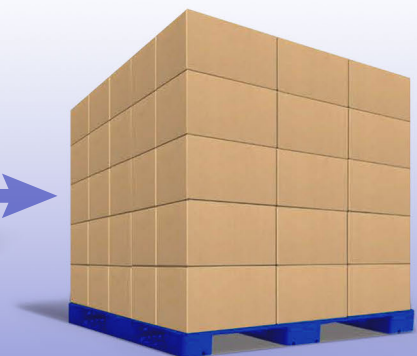
1 PALLET= 25 CARTONS



INTERNAL PACKAGE  
FORMING PEARL FOAM



WEIGHT: 39.5KG/CARTON  
SIZE(LxWxH): 600x320x310MM



WEIGHT: 1002.5KG/PALLET  
SIZE(LxWxH)=1.2x1x1.75M ≈ 2CBM





**ABYSS  
BATTERY**  
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