



# ABYSS BATTERY

POWER YOUR PURSUIT.

## GROUP 31

# 12V 150AH



## DATA SHEET

WWW.ABYSSBATTERY.COM





# G31-12V150-BT



12V 150Ah LiFePO4 Battery with Bluetooth

G31-12V-150-BT

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	150Ah
Parallel Connection	Max. 4units
Serial Connection	Max. 4units
BMS	4S150A
Bluetooth	Android/IOS
Heat	No
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	14.4±0.2V
Standard Current	30A
Fast Current	75A

DISCHARGE SPECIFICATIONS

Standard Current	30A
Max. Con. Current	150A
Peak Current	800A(300ms)
Cut-off Voltage	10V

MECHANICAL SPECIFICATIONS

Dimensions (mm)	330×173×216mm (Group 31)
Approx Weight(KG)	15.5
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:

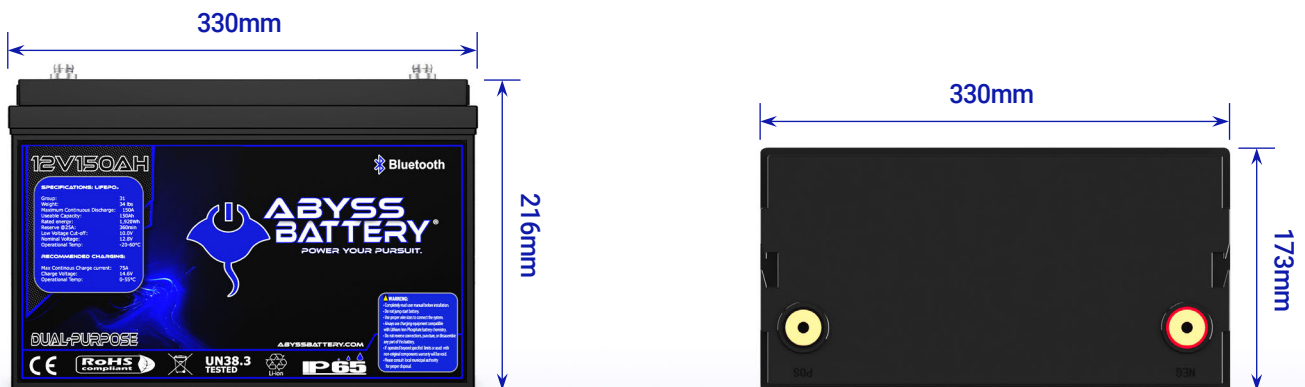
- Cell match:**  
 More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cells welding:**  
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**  
 All battery packs are 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:

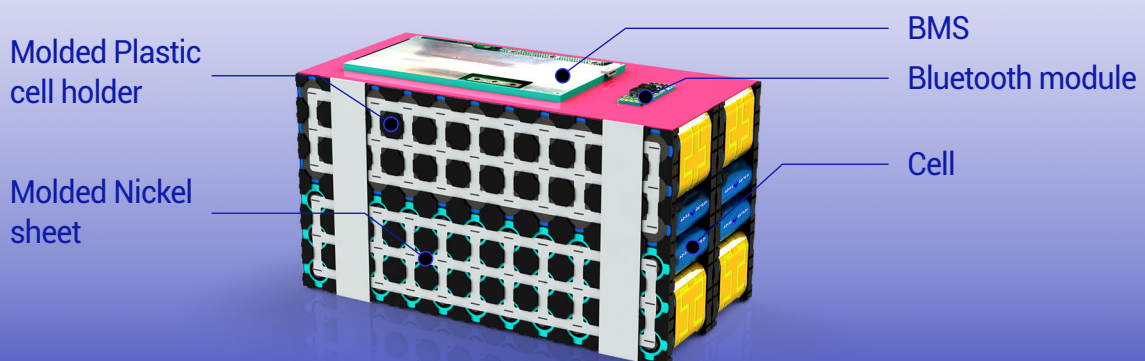
UL 1642 (Cell)	CE (Pack)
IEC62133 (Cell)	UN38.3 (Cell/ Pack)
IEC62619 (Cell)	ROHS (Cell)



## DIMENSIONS:

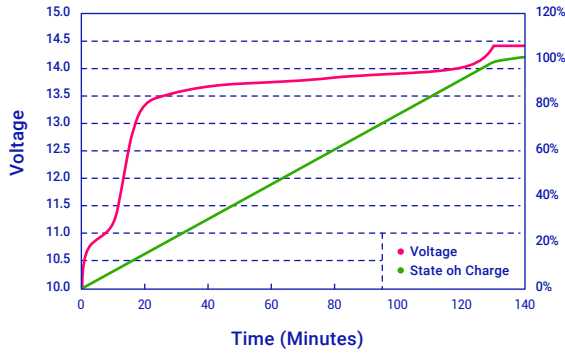


## INTERNAL STRUCTURE:

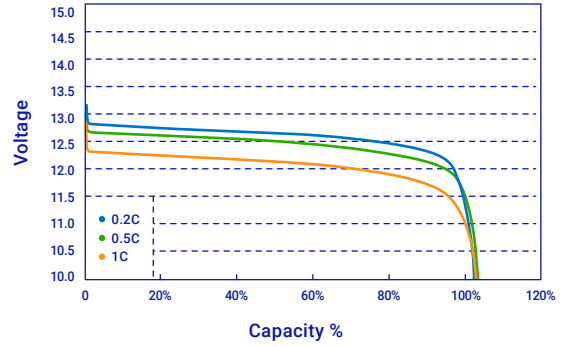


# CHARACTERISTICS CURVE:

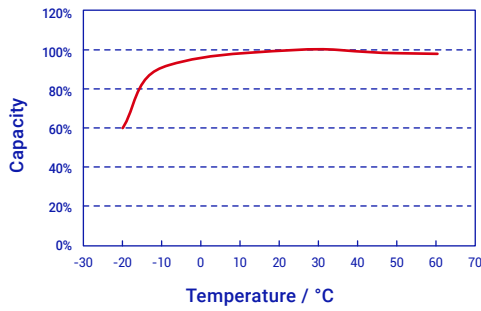
CHARGING CHARACTERISTICS (0.5C @25°C)



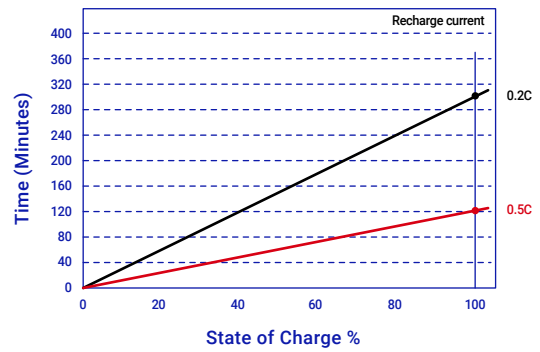
DISCHARGING CHARACTERISTICS (0.2C, 0.5C, 1C @25°C)



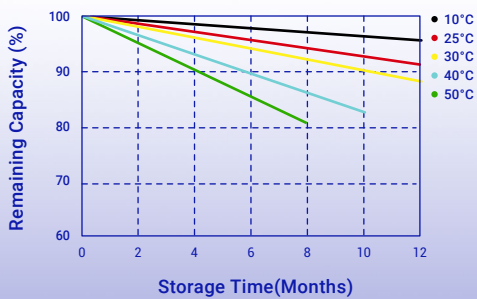
DIFFERENT TEMPERATURE CAPACITY CURVE



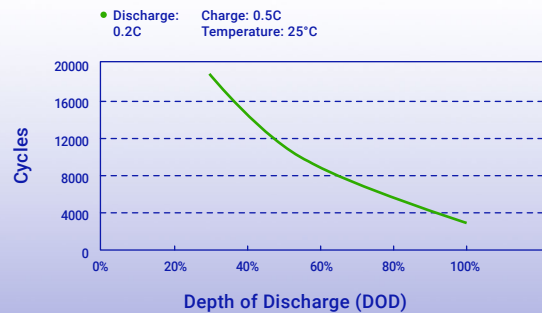
TYPICAL CHARGE TIME CURVE



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.
- Bluetooth:**  
 Can monitor the battery status(charge, discharge, current, temperature, cycle life and so on) and change the data for different applications.
- Heat:**  
 Uniform internal heating is an important feature of our cold-weather performance batteries, as many external heating blanket options currently available cannot sense the internal temperature of the cells and may not be completely effective at heating the battery throughout. The system features proprietary technology that draws power from the charger itself, requiring no additional components. The entire process of heating and charging is completely seamless. Simply plug the battery into the regular lithium charger and the internal heating and monitoring system takes care of the rest.
- 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.
- Smaller size and less weight:**  
 The size of our battery is just 3/4 size of the standard 12V 120Ah battery from other manufacturerers.

## MARKET APPLICATIONS:



RV



MARINE



GOLF CART



CLEANING



LIGHT EV



ENERGY STORAGE



ROBOTICS



LIGHTING

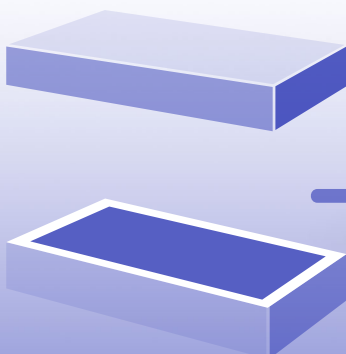
## PACKAGE:

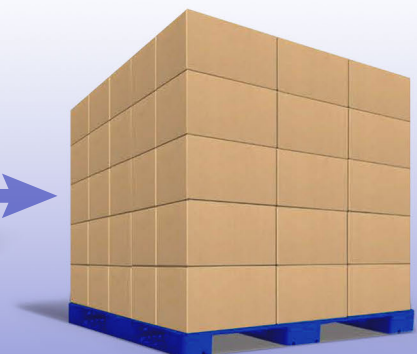
20' CONTAINER=10PALLET=600CARTONS=600UNITS

40' CONTAINER=20PALLET=1200CARTONS=1200UNITS

1 CARTON=1 UNIT

1 PALLET= 60 CARTONS


 INTERNAL PACKAGE  
FORMING PEARL FOAM

 WEIGHT: 16.5KG/CARTON  
SIZE(LxWxH): 410x250x310MM

 WEIGHT: 990KG/PALLET  
SIZE(LxWxH)=1.2x1x1.7M ≈ 2CBM



**ABYSS  
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