



**ABYSS
BATTERY**

POWER YOUR PURSUIT.

GROUP 8D / 8D-BT

48V 105AH



DATA SHEET

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MODELS INCLUDED:



8D-48V105

48V 105Ah LiFePO4 Battery

8D-48V105BT

48V 105Ah LiFePO4 Battery with Bluetooth

ELECTRICAL SPECIFICATIONS

	8D-48V105	8D-48V105-BT
Nominal Voltage	51.2V	51.2V
Nominal Capacity	105Ah	105Ah
Parallel Connection	Max. 6units	Max. 6units
Serial Connection	No	No
BMS	16S200A	16S200A
Bluetooth	No	Android/IOS
Heat	No	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	57.6±0.8V	57.6±0.8V
Standard Current	21A	21A
Fast Current	52A	52A

DISCHARGE SPECIFICATIONS

Standard Current	21A	21A
Max. Con. Current	105A	105A
Peak Current	850A(20ms)	900A(100ms)
Cut-off Voltage	40V	40V

MECHANICAL SPECIFICATIONS

Dimensions (mm)	521×267×220mm (Group 8D)	
Approx Weight(KG)	40	40
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:

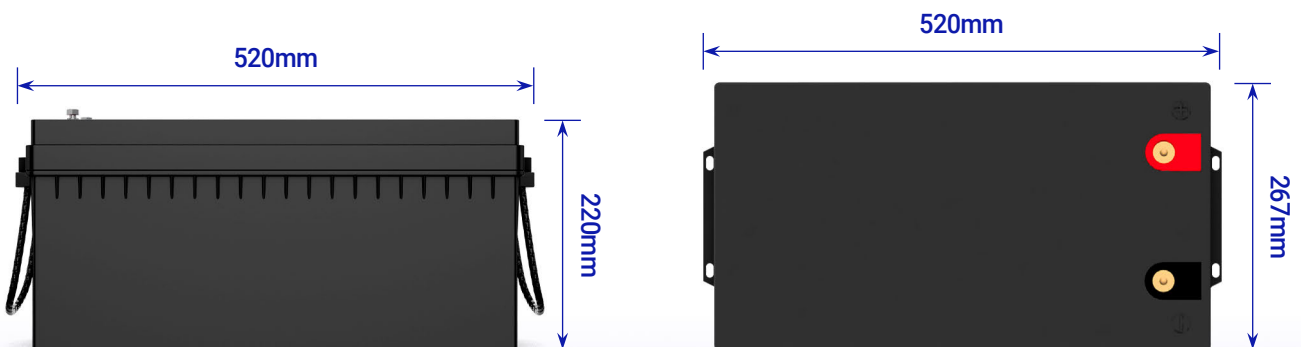
- Cell match:**
 More strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cells welding:**
 Cells are assembled by Automatic welding equipments to ensure the quality reliability and consistency.
- 100% Cycle test:**
 All battery packs are 100% cycle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

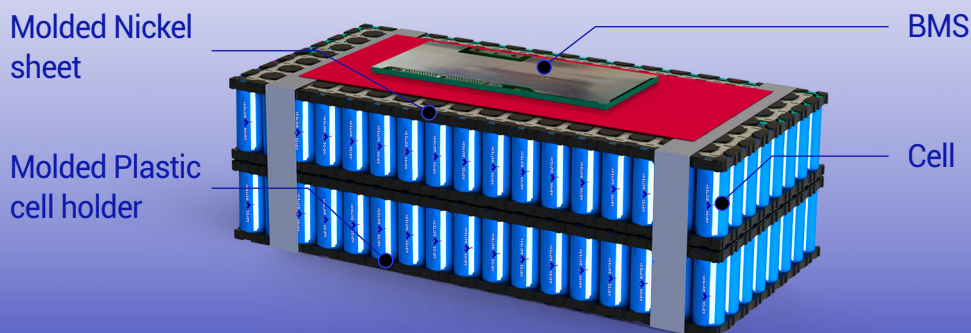
UL 1642 (Cell)	CE (Pack)
IEC62133 (Cell)	UN38.3 (Cell/ Pack)
IEC62619 (Cell)	ROHS (Cell)



DIMENSIONS:

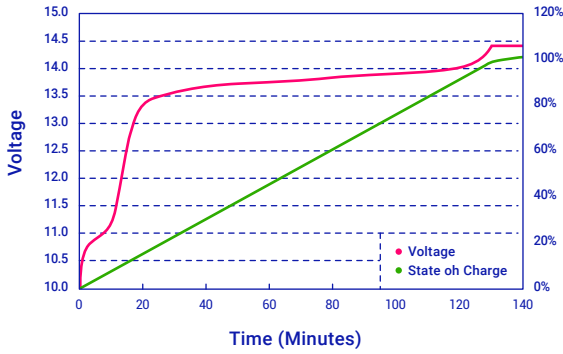


INTERNAL STRUCTURE:

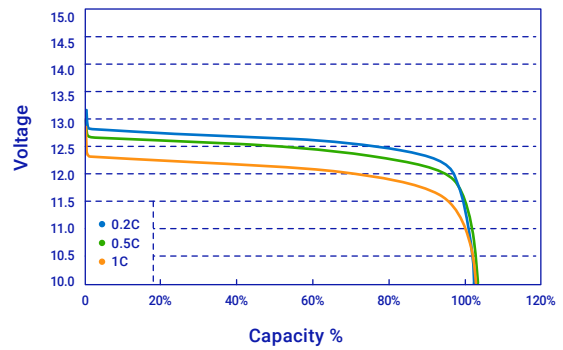


CHARACTERISTICS CURVE:

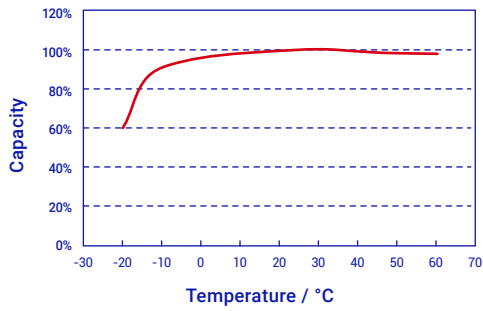
CHARGING CHARACTERISTICS (0.5C @25°C)



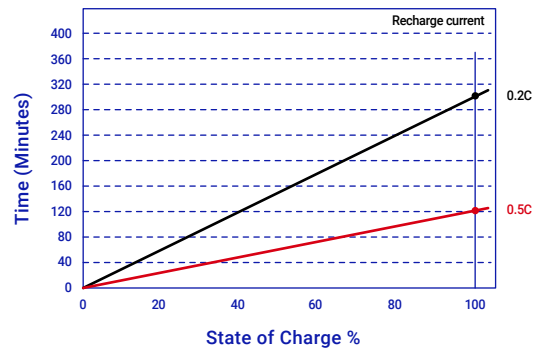
DISCHARGING CHARACTERISTICS (0.2C, 0.5C, 1C @25°C)



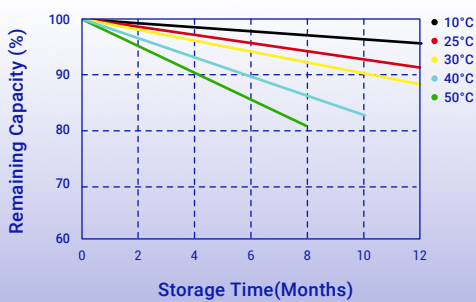
DIFFERENT TEMPERATURE CAPACITY CURVE



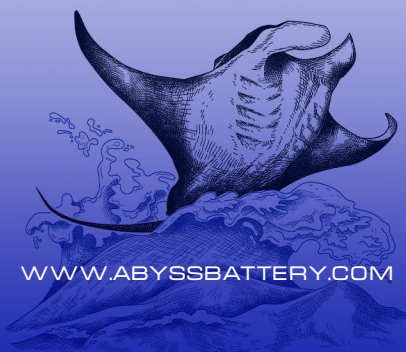
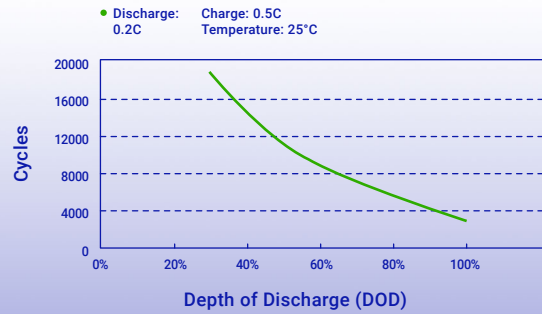
TYPICAL CHARGE TIME CURVE



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



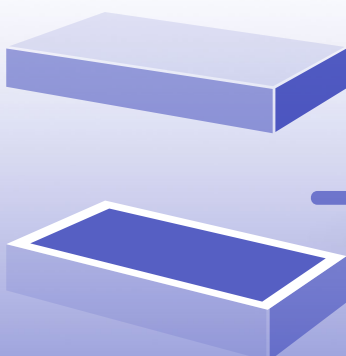
LIGHTING

PACKAGE:

20' CONTAINER=10PALLET=250CARTONS=250UNITS
 40' CONTAINER=20PALLET=500CARTONS=500UNITS

1 CARTON=1 UNIT

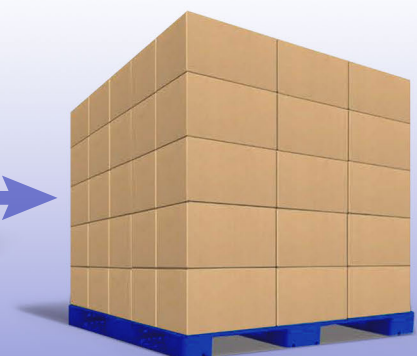
1 PALLET= 25 CARTONS



INTERNAL PACKAGE
FORMING PEARL FOAM



WEIGHT: 42KG/CARTON
 SIZE(LxWxH): 600x320x310MM



WEIGHT: 1065KG/PALLET
 SIZE(LxWxH)=1.2x1x1.75M ≈ 2CBM



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