



ABYSS BATTERY

POWER YOUR PURSUIT.

SERIES

AB-G24S



DATA SHEET

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MODELS INCLUDED:


HEAT[™]
ABG24S-121 00BT

12V 1 00Ah LiFePO4 Battery with Bluetooth

ABG24S-121 00BH

12V 1 00Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)


ABG24S-1 2120BT

12V 120Ah LiFePO4 Battery with Bluetooth

ABG24S-121 20BH

12V 120Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)

**ELECTRICAL
SPECIFICATIONS**

	AB G24S-121 00BT	AB G24S-121 00BH	AB G24S-12120BT	AB G24S-12120BH
Nominal Voltage	12.8V	12.8V	12.8V	12.8V
Nominal Capacity	100Ah	100Ah	120Ah	120Ah
Parallel Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
Serial Connection	Max. 4units	Max. 4units	Max. 4units	Max. 4units
BMS	4S100A	4S100A	4S150A	4S150A
Bluetooth	Android/IOS	Android/IOS	Android/IOS	Android/IOS
Heat	No	Yes	Yes	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	14.4±0.2V	14.4±0.2V	14.4±0.2V
Standard Current	20A	20A	24A	24A
Fast Current	50A	50A	60A	60A

**DISCHARGE
SPECIFICATIONS**

Standard Current	20A	20A	24A	24A
Max. Con. Current	100A	100A	120A	120A
Peak Current	700A(300ms)	700A(300ms)	800A(300ms)	800A(300ms)
Cut-off Voltage	10V	10V	10V	10V

**MECHANICAL
SPECIFICATIONS**

Dimensions (mm)	260x170x208mm (Group 24)			
Approx Weight(KG)	11,5	12	13	13.5
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	0Cto SSC (32F to 131F)	-20C to SSC (-4F to 131 F)	0Cto SSC (32F to 131 F)	-20C to SSC (-4F to 131 F)
Discharge Temp		-20C to 60C	(-4F to 140F)	
Storage Temp		-5C to 45C	(23F to 113F)	

KEY POINTS FOR QUALITY CONTROL:

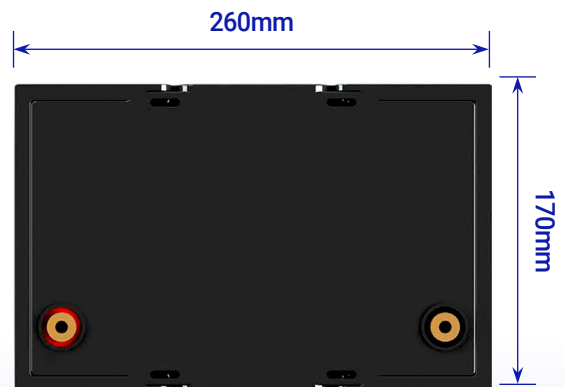
- Cell matching:**
 Strict cell matching standard, the difference of Internal resistance is 1 mΩ and voltage is 5mV.
- Automatic cell welding:**
 Cells are assembled with Automatic welding equipment to ensure quality, reliability, and consistency.
- 100% Cycle test:**
 All battery packs are 100% cycle 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 with a unique serial number on the case side for quality tracking.

CERTIFICATIONS:

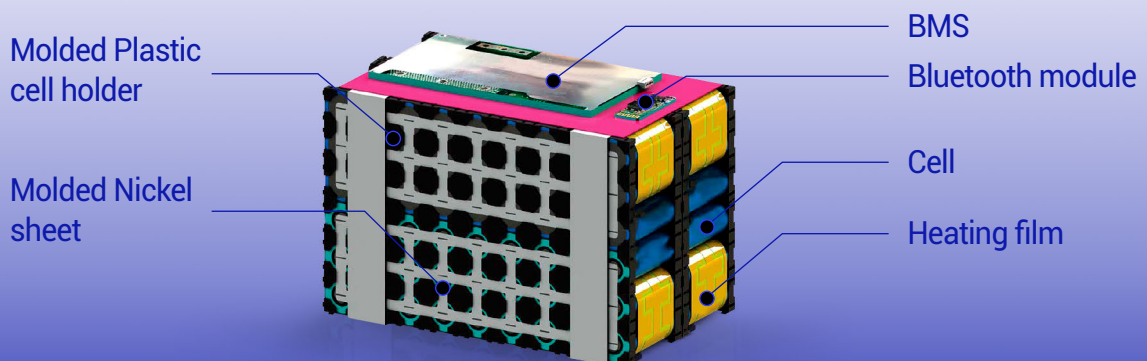
- | | |
|-----------------|---------------------|
| UL 1642 (Cell) | CE (Pack) |
| IEC62133 (Cell) | UN38.3 (Cell/ Pack) |
| IEC62619 (Cell) | ROHS (Cell) |



DIMENSIONS:



INTERNAL STRUCTURE:



KEY BENEFITS:

- Higher qualified cylindrical cells:**
 UL1642, IEC62619, IEC62133 listed with Cycle life more than 3000times and excellent consistency.
- Bluetooth Integration:**
 Monitor battery status (charge, discharge, current, temperature, cycle life and so on) Manage/change the data for different applications.
- Heating Function:**
 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 seam-less. 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:**
 Our Cell holder design construction protects and separates each cell within the battery to avoid any circuit short risk caused by vibration or impact or over current, while also improving heat dissipation.
- Smaller size + less weight:**
 The size of our battery is just 3/4 size of the standard 12V 100Ah battery from other Lithium Battery Companies.

MARKET APPLICATIONS:



RV



MARINE



GOLF CART



CLEANING



LIGHT EV



ENERGY STORAGE



ROBOTICS



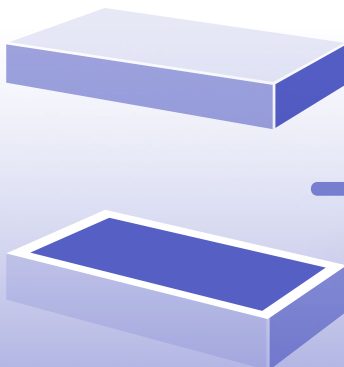
LIGHTING

PACKAGE:

20' CONTAINER=10PALLET=750CARTONS=750UNITS
 40' CONTAINER=20PALLET=1500CARTONS=1500UNITS

1 CARTON=1 UNIT

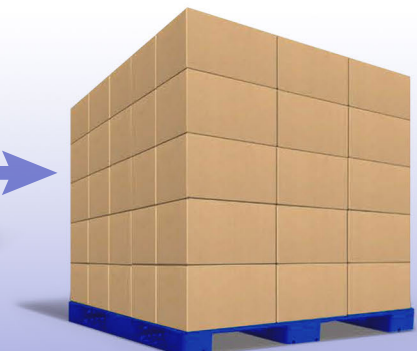
1 PALLET= 75 CARTONS



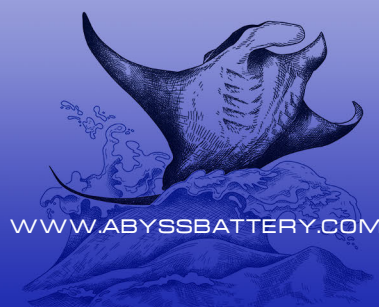
INTERNAL PACKAGE
FORMING PEARL FOAM



WEIGHT: 13KG/CARTON
SIZE(LXWXH): 320X230X282MM



WEIGHT: 985KG/PALLET
SIZE(LXWXH)=1.2X1X1.6M * 2CBM



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