

# AB-G24S Series

Data sheet



12V 100Ah

12V 120Ah

Bluetooth

HEAT<sup>SS</sup>



## Models Included:

- **ABG24S-12100BT** 12V 100Ah LiFePO4 Battery with Bluetooth
- **ABG24S-12100BH** 12V 100Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)
- **ABG24S-12120BT** 12V 120Ah LiFePO4 Battery with Bluetooth
- **ABG24S-12120BH** 12V 120Ah LiFePO4 Battery with Bluetooth and Heat (cold-weather performance battery)



		Model			
		AB G24S-12100BT	AB G24S-12100BH	AB G24S-12120BT	AB G24S-12120BH
Electrical Specifications	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	No	Yes
	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
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)	260×170×208mm (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	0C to 55C (32F to 131F)	-20C to 55C (-4F to 131F)	0C to 55C (32F to 131F)	-20C to 55C (-4F to 131F)
	Discharge Temp	-20C to 60C		(-4F to 140F)	
	Storage Temp	-5C to 45C		(23F to 113F)	

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## Key Points for Quality control:

- Cell matching:**  
 Strict cell matching standard, the difference of Internal resistance is 1mΩ and voltage is 5mV.
- Automatic cell welding:**  
 Cells are assembled with Automatic welding equip-ment 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:

- UL1642 (Cell)
- IEC62133 (Cell)
- IEC62619 (Cell)
- CE (Pack)
- UN38.3 (Cell / Pack)
- ROHS (Cell)

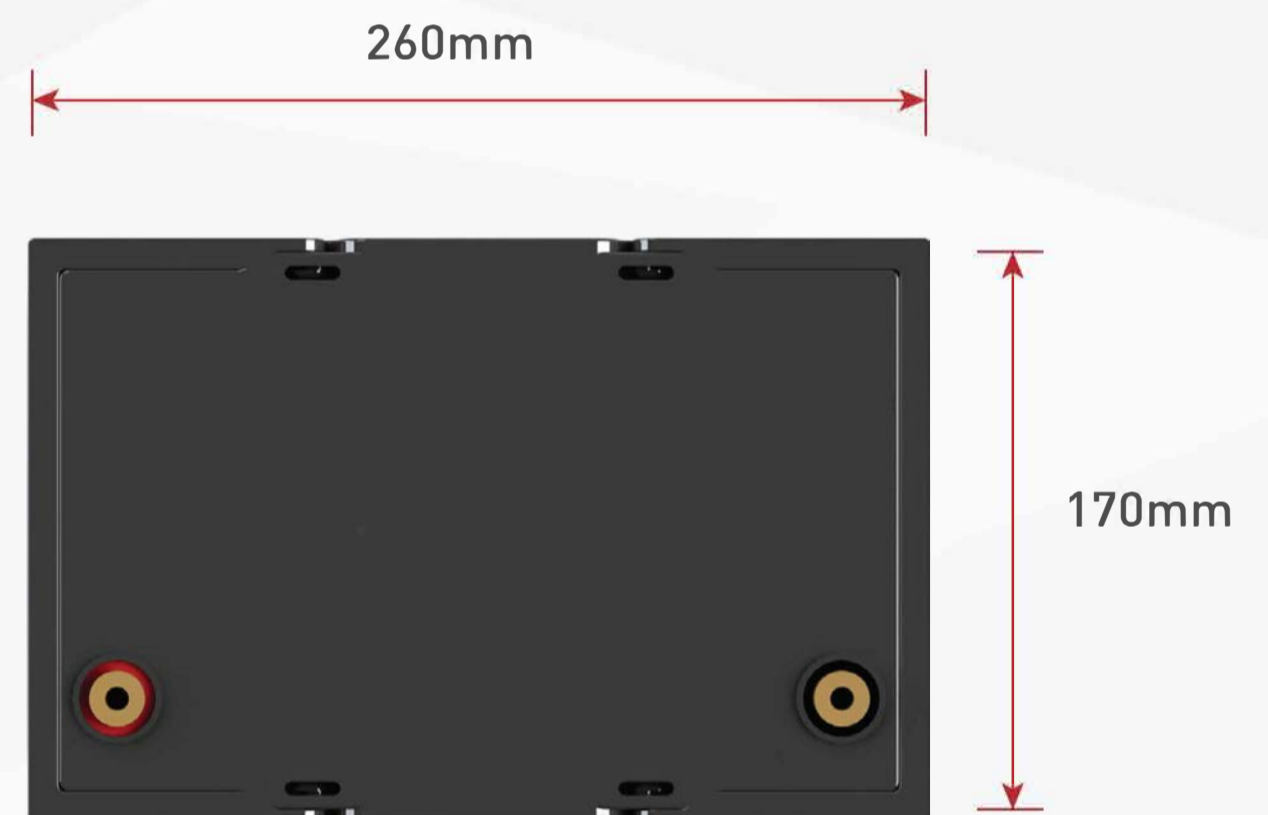
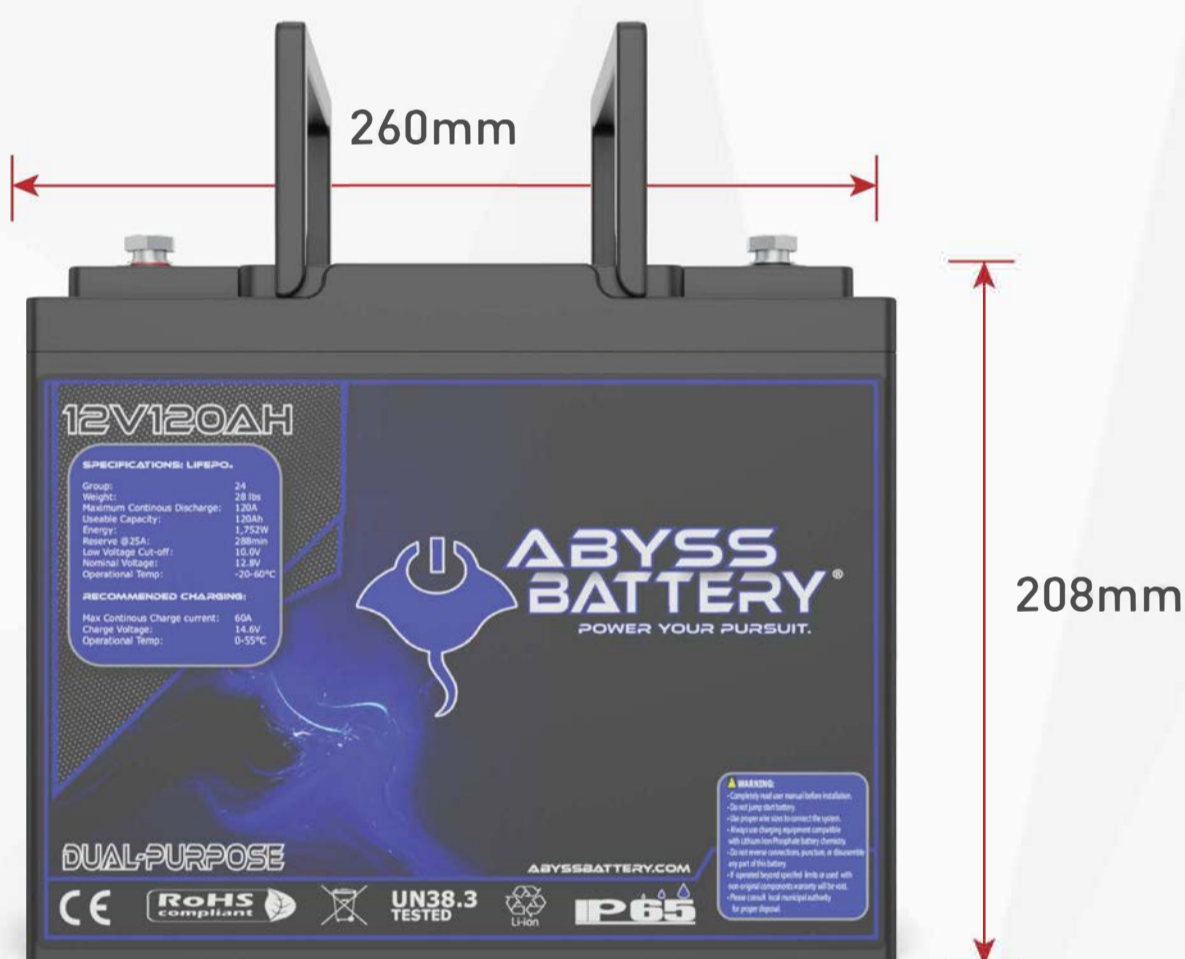
MSDS



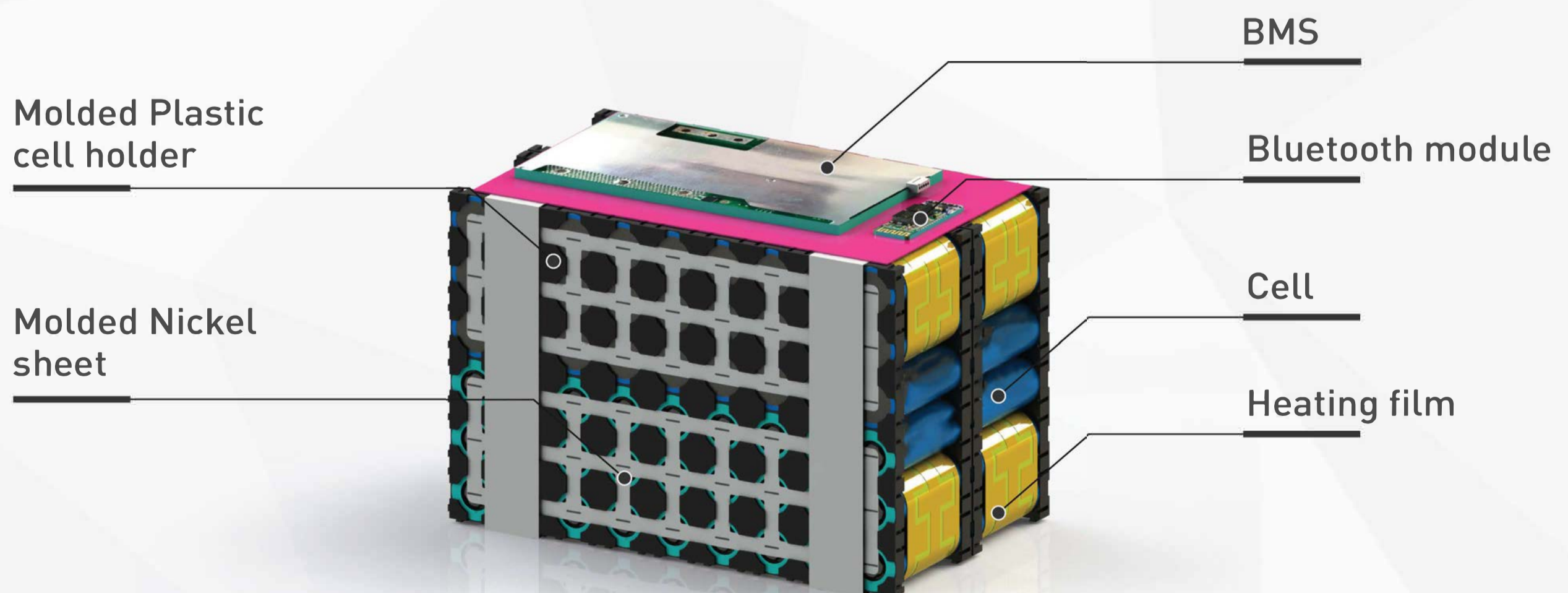
UN38.3



## Dimensions:



## Internal Structure:



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## 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=10Pallets=750Cartons=750Units;  
 40' Container=20Pallets=1500Cartons=1500Units;



Internal Package  
Forming pearl foam

1Carton=1Unit



Weight: 13Kg/carton  
 Size(LxWxH): 320x230x282mm

1Pallet=75Cartons



Weight: 985Kg/pallet  
 Size(LxWxH)=1.2x1x1.6m ≈ 2CBM

