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1. Scope

This specification is for the 24V 105Ah Muller Energy LiFePO₄ Battery, in which the description and model, main performance and precautions of the product are included.

This product is well suited for the use in 4WD, caravans, camper vans and boats.

2. Description and Model

2.1 Description: LiFePO₄ battery

2.2 Model: ME24105BT

3. Appearance







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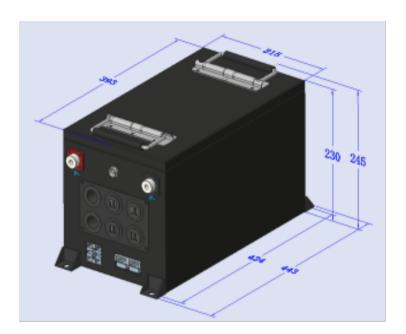
4. General Technical Parameter

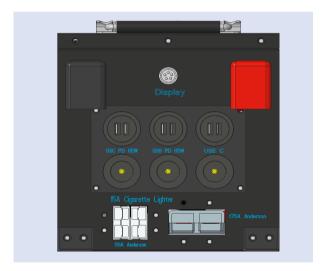
#	Item			Parameter	Remark	
1	Nominal Capacity			105.0 Ah @ 0.2C discharge		
2	Minimum Capacity		98.0 Ah @ 0.2C discharge			
3			25.6V			
4	AC Impedance Resistance			≤30mΩ		
Max Charge Current			x Charge Current	150A		
5	5 Charge		Cut-off Voltage	29.2V		
	Charging temperature				0°C~60°C	
		Max Continuous		150A		
			Current			
6	Discharge		stantaneous Current		300A	
		C	Cut-off Voltage		20V	
		Disch	arging temperature		-20°C~65°C	
7	Reco	mmend S	SOC Window	S	SOC: 10%~95%	
					000 @ 100% DoD	
8	Ex	kpected (Cycle Life		500 @ 80% DoD	
	9 Storage Temperature		T	6500 @ 50% DoD		
9			-	10~45°C	(50% SOC recommended)	
	Humidity		≤ 75%RH			
10	Self discharge				≤3%/Month	
11	Weight		202+2	28kg		
12	Batter	y	Length	393±2mm (4	43±2mm including brackets)	
12	dimensi	ons	Width Height	215±2mm 230±2mm		
			Height	Per connector. Can be used f		
13	50A Anderson maximum current		50A	charging and discharging		
14	4 175A Anderson maximum current		175A	Can be used for charging and		
17	1/JA All	uci son i	maximum current	173A	discharging	
15	Termi	nals maz	ximum current	250A	Can be used for charging and discharging	
16	Cigarette lighter maximum current		15A	Per connector. For discharging only, not charging		
17	Merit con	nnector 1	maximum current	15A	For discharging only, not charging	
18	USB A maximum power		18W (12V @ 1.5A)			
19	USB C maximum power		45W (20V@2.25A	Can charge laptops, tablets, etc		
20	1		Turn on/off USB & Display			
21			Turn on/off all the charge/ discharge ports			
	22 Bluetooth function			Android and iPhor	ne apps available. Please download	
22				the APP, QR code below. Please do not change any settings in the BMS unless entirely sure of the consequences.		



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5. Battery Drawings





6. Transportation

This battery is UN38.3 certified.

For shipping, the battery for shipping should be packed in a padded box with an SOC of around 50%

Excessive vibration, impact, sun and rain should be avoided during shipping.

The battery is suitable for cars, trains, ships, aircraft and other transportation vehicles.

Transport requirements need to be followed.



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7. Storage and other matters

7.1 Long-term storage

Batteries should be stored (more than 1 month) indoor with a dry and clean environment at 10 °C~45 °C. Avoiding contact with corrosive substances and keep away from fire and heat source.

The battery should be charged and discharged every 6 months.

8. Handling of Batteries

8.1 Charging

8.1.1 Charging current

Charging current shall not exceed the maximum charging current in this specification. Otherwise, it may cause problems in charge and discharge performance, mechanical performance and safety performance, and may cause heat or leakage.

8.1.2 Charging voltage

Charging voltage shall not exceed the maximum charging current in this specification. Charging temperature

Batteries must be charged within the ambient temperature range of 0 °C~55°C.

8.1.3 Forbidding reverse charge

Battery should be connected correctly. It is strictly prohibited to reverse charge. Otherwise, it will likely cause the battery to fail.

8.2 Discharge

8.2.1 Discharging current

Discharge current shall not exceed the maximum charging current in this specification; Otherwise, it may cause dramatic capacity loss and overheating.

8.2.2 Discharge temperature

Batteries must be discharge within the ambient temperature range of -20 °C~55 °C.

8.3 Battery Handling Precautions

- 8.3.1 Before using the battery, please read the specification and pay attention to the information on the battery sticker.
- 8.3.2 Please use the battery in a normal indoor environment, temperature: -20 °C \sim 55 °C, relative humidity: 15 \sim 90%, atmospheric pressure: 86 \sim 106 kPa.
- 8.3.3 Keep away from heat, fire, children. Do not beat, drop or impact the battery.
- 8.3.4 The battery can only use an appropriate charger to charge.
- 8.3.5 Do not short circuit the battery at any time, otherwise it can cause serious damage to the battery and cause dangerous situations.
- 8.3.6 If the battery not used for an extended period of time, please store the battery as outlined in this document.
- 8.3.7 Please recycle battery at end of life.



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9. Bluetooth APP

App supports Apple and Android devices. As the BMS is in a metal box, Bluetooth range may be jimited.ÿ

Please download the Bluetooth APP for iPhone or Android by scanning the QR codes

below.



Should you not be able to connect, please ensure Bluetooth is enabled and restart your device.

10. Precautions

Failure to observe the following precautions may result in battery leakage, overheating, explosion and/ or fire.

Warning!

- 1. Do not immerse the battery in water or allow it to get wet.
- 2. Do not strike, throw or subject the battery near a fire or in hot conditions.
- 3. Charge with specified charge according to charging requirement
- 4. Do not reverse the positive (+) and negative (-) terminals.
- 5. Do not put the battery into a fire or apply direct heat to it.
- 6. Do not short-circuit the battery by connecting wires or other metal objects to the positive (+) and negative (-) terminals.

Caution!

- a) Do not use or store the battery where is exposed to extremely hot temperatures, such as in a dark car parked in direct sunlight on a hot day. Otherwise, the battery may overheat.
- This can also reduce battery performance and/or shorten service life.
- b) Do not use battery in the strong electrostatic and magnetic field
- c) If the battery leaks and electrolyte gets into your eyes, rinse the eyes with clean running water and seek medical attention immediately.
- d) Do not use the battery if it gives off an odour, generates heat, changes color or have any problems during usage, storage and discharging.