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## 1. Scope

This specification is for the 12V 300Ah Muller Energy LiFePO<sub>4</sub> 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 : LiFePO<sub>4</sub> battery
- 2.2 Model : ME12300BT

## 3. Appearance

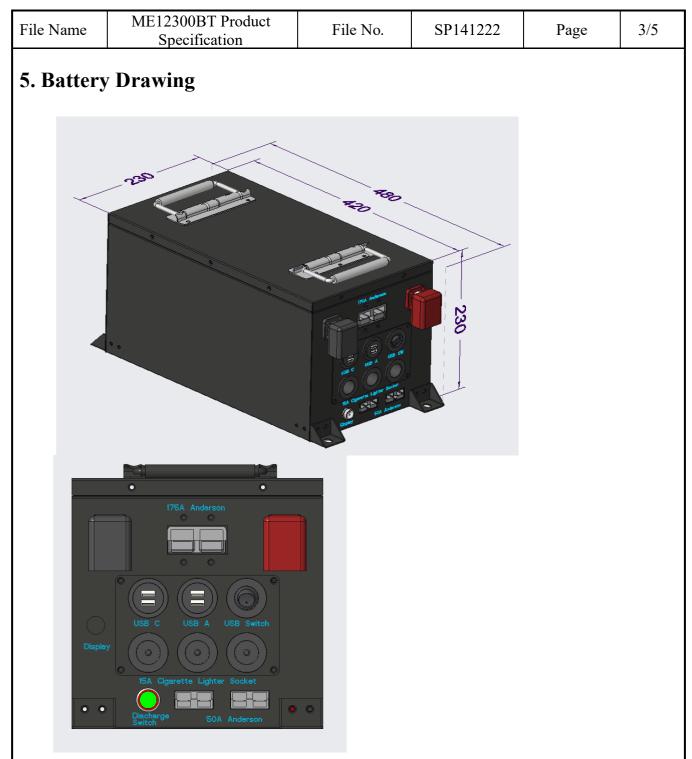




# Muller Energy

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1. G	eneral T	'echni	ical Parameter					
#		Ite	em	Parameter Remark				
1	Nominal Capacity		304.0 Ah @ 0.2C discharge					
2	Minimum Capacity			300.0 Ah @ 0.2C discharge				
3	Nominal Voltage			12.8V				
4	AC Impedance Resistance		<u>≤</u> 30mΩ					
		Max Charge Current		250A				
5	Charge	C	Cut-off Voltage		14.6V			
	Charge	Cha	rging temperature		0°C~60°C			
		N	lax Continuous		250A			
		Current					-	
6	Discharge	Max Ir	stantaneous Current		500A			
	-	0	Cut-off Voltage		10V			
		Disch	arging temperature		-20°C~60°C			
7	Reco	mmend	SOC Window	S	SOC: 10%~95%			
					000 @ 100% DoD			
8	E	xpected	Cycle Life	3500 @ 80% DoD				
			T (		500 @ 50% DoD	1 1)		
9	Storag	ge	Temperature	10~45°C	$10 \sim 45$ °C (50% SOC recommended)			
	Humidity		≤ 75%RH					
10		Self discharge		≤3%/Month				
11		We	ight	120+2 (1	33.4kg	1 1		
12	Batter	У	Length Width	420±2mm (480±2mm including brackets) 230±2mm				
12	dimensi	ons	Height		230±2mm			
10	50.4.4	1	<b>C</b>	50.4		Can be used for		
13	50A An	derson n	naximum current	50A	charging and	d discharging		
14	175A Ar	nderson 1	naximum current	175A		or charging and arging		
15	Termi	nals max	kimum current	250A	Can be used for	or charging and arging		
16	Cigarette	lighter	naximum current	15A	Per connector.	For discharging t charging	;	
17	Merit con	nnector	maximum current	15A	For discharging		ng	
18		USB A maximum power		18W (12V @ 1.5A)	<u> </u>	. 0		
19		USB C maximum power		45W (20V@.25A)	Can charge lan	tops, tablets, etc	;	
20			*	Turn on/off USB				
21	USB Switch Discharge Switch		Turn on/off all the discharge ports. This can be done via the optional screen or via the Bluetooth app.					
22	Bluetooth function			Android and iPhone Ap Please do not chan	apps available. Ple p. QR code below.	ease download the BMS unless		

## Muller Energy



## 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 matter	S			
7.1 Long	-term storage				
at 10°C	es should be stored (more ~45 °C. Avoiding conta at source.	· · · · · · · · · · · · · · · · · · ·	•		
	tery should be charged a	nd discharged every 6 1	nonths.		
	ng of Batteries	nd discharged every 6 1	nonths.		
<b>8. Handlin</b> <b>8.1 Char</b> 8.1.1 Chargir Otherw perform 8.1.2 C Chargir	ng of Batteries	cceed the maximum oblems in charge and nance, and may cause he	charging curren d discharge pe eat or leakage.	erformance, n	nechanica

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 ~ 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 limited.

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.