51.2V 105Ah

SPECIFICATIONS

LIGHTER. DENSER.
GO FURTHER.
BEAUTY LIFE IS HERE.

wirentech

2x	3x	5	1/3	67
Twice the power of traditional batteries	3 times longer service life	5-year quality guarantee	One-third the weight of lead-acid batteries	Protection degree up to IP67

51.2V 105Ah 5376Wh	Weight 51KG	Size 19.17”x11.81”x8.64” 487*300*215mm

Safety Certified Via:

ISO 9001	UN38.3	MSDS

Insurance No.10528003902341717928

LiFePO4 BATTERY

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Electrical Characteristic	
Nominal Voltage	51.2V
Nominal Capacity (at 0.5C, 25 degC)	105Ah
Min. Capacity (at 0.5C, 25 degC)	100Ah
Expected Cycle Life	More than 6000 cycles, with 0.2C charge and discharge rate, at 25 ℃, 80%DOD
Mechanical Characteristics	
Length	457±1mm
Width	298±1mm
Height	244±1mm
Net Weight	~49Kg
Operation Conditions	
Charge Method	CC-CV
Max. Charge Voltage	58.4V
Continuous Charge Current	Max. 150A
Charge Temperature	0℃ ~ 45℃
Continuous Discharge Current	Max. 150A
Peak Instant Discharge Current (5 Seconds)	450A
Discharge Cut-off Voltage	40.0V
Discharge Temperature	-20℃ ~ 65℃
Charge Temperature	0℃ ~ 45℃
Storage Temperature	-10℃ ~ 45℃
Self-Discharge (Stored at 50% SOC)	<= 3%/month

BMS Specification

Item	Content	Criterion
Over Charge Protection	Over charge detection voltage	3.75±0.05V
	Over charge detection delay time	0.96∽1.4s
	Over charge release voltage	3.60±0.05V
	Maximum charge voltage	3.65±0.05V
	Maximum charge current	≤150A

www.wirentech.com
No.1002-2, xinzhoubang Technology Building, Pingshan Street, Pingshan District, Shenzhen, China.
Office@wirentech.com

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BMS Specification		
Item	Content	Criterion
Over Discharge Protection	Over discharge detection voltage	2.5V±0.10V
	Over discharge detection delay time	20ms
	Over discharge release voltage	3.0V±0.10V
Over Current Protection	Maximum continuous current	≤150A
	Over current detection current	450A
	Over current detection delay time	100ms
	Over current release condition	Cut load
Short Circuit Protection	Short Circuit release condition	Cut load
	Over current detection delay time	250 us
Balance	Balance current	35±5mA
	Start Voltage	3.40V
Impedance	<10 mΩ	

Six protections are available:

1, Charge Protection, Smart IC effectively controls MOS to prevent battery overcharge.

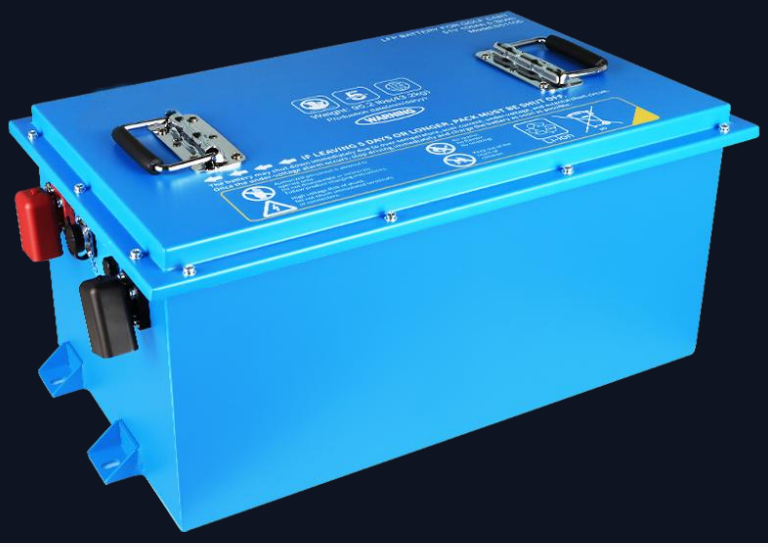
2, Discharge Protection, prevent battery from dying and increase the lifespan.

3, Over current Protection, Prevent battery from being damaged by excessive instantaneous current.

4, Short Circuit Protection, Automatic protection during abnormal short circuit.

5, Temperature Protection, the NTC temperature control probe is added to prevent the damage caused by the spontaneous combustion of the battery when the temperature is too high.

6, Drop Protection, prevent the sampling line from falling off, and no output from PCB.



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