

WT5100

51.2V RACK BATTERY



wirentech

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The 51.2V 100Ah rack battery pack is made of lithium iron phosphate cells. The module design gives the user the freedom to select the power capacity, providing up to 163.8kWh with a maximum power of 32 in parallel.

Safety Certified via:

ISO 9001: 2015

Insurance No. 10528003902341717928

Energy
51.2V 100Ah
(5.12KWh)

Weight
46KG

10 Years
Warranty

WT5100 DIMENSIONS



1. Positive connection Wire Red/ AWG 4*6



2. Negative parallel Wire Black/ AWG 4*6

3. Slave parallel Communication line 11 inches/ Double RJ45 Plug



4. Host and inverter Communication line Black/ L2000mm/ Double RJ45 Plug



5. Standard 5-meter power cable connected to the positive and negative port
Red& Black/ 25mm²/ L2000mm.



6. Cabinet for 6 pcs batteries, customize available
620mm*1015*1290mm, 120kg.





Technical Specification	
Operation Voltage	44.8V~ 57.5V
Dimensions	482*510*138mm
Weight	46KG
Warranty	10 Years
LiFe Time	15 Years @ 68°F
Cycle life	6000+
Energy	51.2V 100Ah (5.12KWh)
Max. Charge Voltage	57.6V
Max. Charge Current	50A (2.56KW) @77°F
Max. Discharge Current	100A (5.12KW) @77°F
Energy Scalable	Max. 32 units in parallel
Enclose Protection Rate	IP22
Communication	RS232/RS485 → PC software CAN/RS485 → Inverters
Storage	Recommended stored at above 50% SOC, test @ 90 Days, recharge if below 52V

Electrical parameters				
Overcharge protection	Overcharge Alarm Voltage	3600mV	Can be set	Will enter low-power mode if it still cannot be recovered after 30 seconds of over-discharge protection
	Overcharge protection voltage	3700mV	Can be set	
	Overcharge protection delay time	1.0S	Can be set	
Overvoltage protection release	Overcharge protection release voltage	3380mV	Can be set	
	Capacity release	SOC ≤ 96%	Can be set	
	Discharge release	Discharge current > 1A		
Overdischarge protection	Over-discharge warning voltage	2800mV	Can be set	
	Over-discharge protection voltage	2700mV	Can be set	
	Over-discharge protection delay time	1.0S	Can be set	
Overdischarge protection release	Over-discharge protection release voltage	2950mV	Can be set	
	Release when charging	Plugging in the charger activates		
Total overdischarge protection	Overcharge alarm voltage	57.6 V	Can be set	
	Overcharge protection voltage	58.4 V	Can be set	
	Overcharge protection delay time	1.0S	Can be set	
Total overvoltage protection release	Overcharge protection release voltage	54 V	Can be set	
	Capacity release	SOC ≤ 96%	Can be set	
	Discharge release	discharge current > 1A		
Total overdischarge protection	Over-discharge warning voltage	44.8 V	Can be set	
	Over-discharge protection voltage	43.2 V	Can be set	
	Over-discharge protection delay time	1.0S	Can be set	
Total overdischarge protection release	Over-discharge protection release voltage	47.2 V	Can be set	
	Release when charging	Plugging in the charger activates		