

THS5

51.2V 100Ah Power Wall

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



wirentech

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Energy
51.2V 100Ah
(5.12KWh)

Weight
47KG

Size
580*440*160mm

10 Years
Warranty

★ BMS

Lithium batteries manufactured by wirentech are optimized by its battery BMS, through monitoring cells, to provide protection against overcharge, over discharge, short circuit.

The BMS helps to ensure safe and accurate operation.

★ HEAVY DUTY BUSBAR NEW

Copper busbar, which expands the contact area between copper bar, breaker and module, adopts the technique of high-temperature chemical nickel plating. It performs well in electrical and thermal conductivity, corrosion resistance and low internal resistance and ensures stable performance, large space and simple repair.

THS5 DIMENSIONS





Technical Specification		
Operation Voltage		44 . 8V~ 57.5V
Dimensions		580*440*160mm
Weight		47KG
LiFe Time		10 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
Operation Conditions		
Charge Method		CC-CV
Charge cut-off current		1A
Max. Charge Current		58.4V
Recommend Charge Voltage		≤60A
Charge Temperature		-50~60 C
Continuous Discharge Current		≤105A
Peak Instant Discharge Current (1 Seconds)- settable		150A
Discharge Cut-off Voltage		44.8V
Discharge Temperature		-20~65 C
Storage Temperature		-20~45 C
Self Discharge (Stored at 50% SOC)		≤3%/ month
Item	Content	Criterion
Cell Over Charge Protection	Over charge protection voltage	3750mV
	Over chgarge detection delay time	1s
	Over charge release voltage	3500mV
	Maximum charge voltage	3.75±0.05V
	Maximum charge current	≤60A
Cell Over Discharge Protection	Over discharge protection voltage	2750mV
	Over discharge detection delay time	1s
	Over discharge release voltage	3000mV
Over current protection	Maximum continuous current	105A
	Over current detection current	-110A (settable)
	Over current detection delay time	1000ms
	Over current release condition	Cut load
Active Balance Current	/	
Mechanical Breaker	125A	
Communication Compatible	CAN, RS485, RS232	
Energy Expansion	Max. 32 units in parallel	