

WP-5K

51.2V 100Ah Power Wall



wiretech

contact details

+86-755-28380586

office@wiretech.com

www.wiretech.com

Operation center (China) : 201, Bld 1, Luwu Branch
No. 6407 Pingshan Avenue, Jinsha Community,
Kengzi Street, Pingshan District, Shenzhen City

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.

Energy
51.2V 100Ah
(5.12KWh)

Weight
47KG

Size
440*150*630mm

10 Years
Warranty

★ BMS

Lithium batteries manufactured by wiretech 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.

WP-5K DIMENSIONS





Technical Specification		
Operation Voltage	44.8V~ 57.5V	
Dimensions	440*150*630mm	
Weight	47KG	
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	
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 charge 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	