

WT5100S

51.2V STACKABLE BATTERY



wirentech

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Our Stackable LiFePo4 Battery WT5100S offers one of the best cost to performance experience. Various Built-in Innovations and Techs bring a 6000+ deep Charge/Discharge cycles. It helps get a piece of mind that easier, strong and more convenient power can be stacked up within its 20 years of designed working life!

Safety Certified via:
 UL 9540A, CB,
 IEC62619

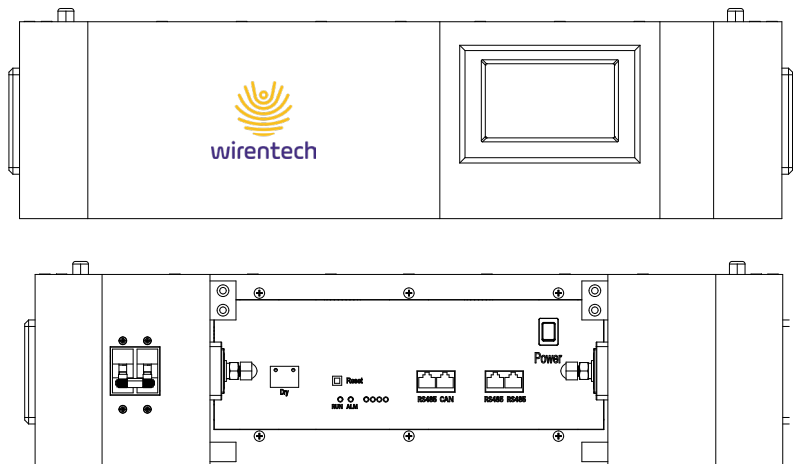
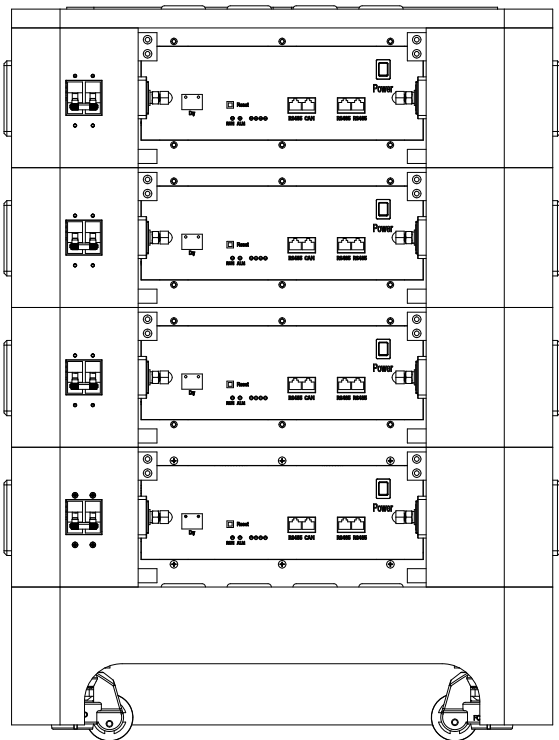
Energy
 51.2V 100Ah
 (5.12KWh)

**Max Stacked
 Capacity**
 97.28KWh

Built-in BMS
 100A

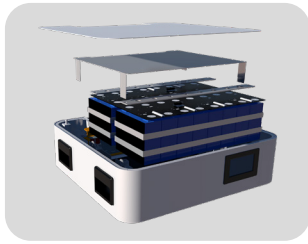
- ★ **MONO Tech** NEW
MONO Tech refers to our new tech that is an **All-in-One** sampling system, it offers better sampling accuracy and higher safety level thanks to the built-in anti-fire fiber materials.
- ★ **Communication/PC Software**
 Compatible with Wirentech, Sol-Ark (Deye) and optional inverters include Victron, Growatts, SMA, Schneider and Megarevo.
- ★ **Touchable LCD** NEW
 Easily play settings through the touch on LCD.
- ★ **RPSD(Rapid Shutdown)** NEW
 this offers rapid shutdown whenever the extreme happens and make sure batteries are completely disconnected and cut out.
- ★ **Busbar Connection** NEW
 Each battery comes with heavy duty busbar, busbar offers easy connection and much more power efficiency

WT5100S

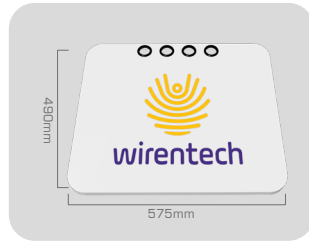




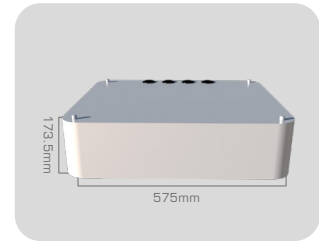
Technical Specification			
Operation Voltage	44 . 8V~ 57.5V		
Warranty	10 Years		
LiFe Time	15 Years @ 68°F		
Cycle life	6000+		
Energy	51.2V 100Ah (5.12KWh)		
Max. Charge Voltage	57.6V		
Max. Charge Current	50A (2.56KW) @77°F		
Max. Discharge Current	100A (5.12KW) @77°F		
Energy Scalable	Max. 19 units 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		
Physical Dimensions			
Battery	575*490*158.5mm		
Base	575*490*173.5mm		
Lid	575*490*20mm		
Weight			
Battery	49KG		
Base	19KG		
Lid	9.5KG		
BMS Parameters			
Charge	Spec	Delay	Recovery
Cell Voltage Protection	3.65V	1 sec	3.45V
Module Voltage Protection	58.2V	1 sec	13.8V
Over Charging Current 1	>99A	1 sec	
Over Charging Current 2	>110A	0.3 sec	
Temperature Protection	<-5°C or >65°C	1 sec	>0°C or <60°C
Discharge			
Cell Voltage Protection	2.5V	1 sec	2.7V
Module Voltage Protection	40.2V	1 sec	43.2V
Over Discharging Current 1	>99A	1sec	
Over Discharging Current 2	>130A	0.3 sec	
Short-Circuit	>260A	0.5 mS	
Temperature Protection	<-20°C or >70°C	4sec	4>-15°C or <65°C
BMS	Parameter	Condition	
PCB Temperature Protection	>90°C	4 sec	<85°C
Cell Balance	1A	Passive Balance	Cell Voltage Difference >50mV
Temperature Accuracy	≤2 C	Cycle Measurement	Measuring Range -40 to 100°C
Voltage Accuracy	10mV (cell)	Cycle Measurement	For Cells & Module
Current Accuracy	2%	Cycle Measurement	Measuring Range -200 to 200°C
SOC	5%		Integral Calculation
Power Consumption - Sleep/Off Mode	<330uA	Sleep & Off Mode	Storage/Transport
Power Consumption - Operating Mode	<80mA	Operating Mode	Charging/Discharging



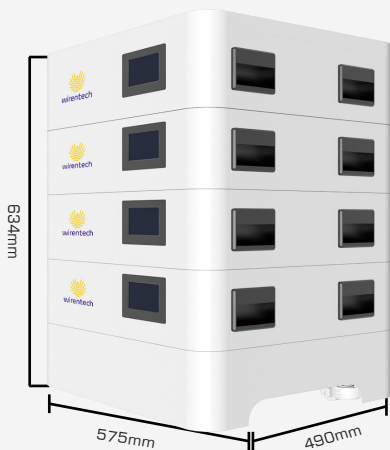
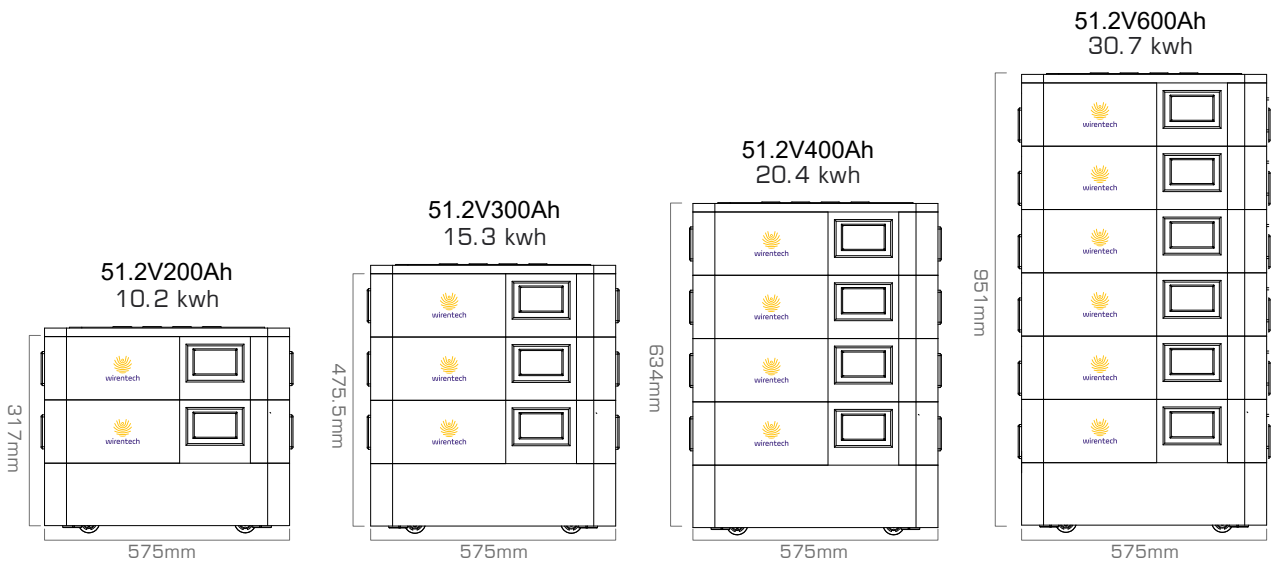
(Blown up, Internal View)



(Lid sizes)



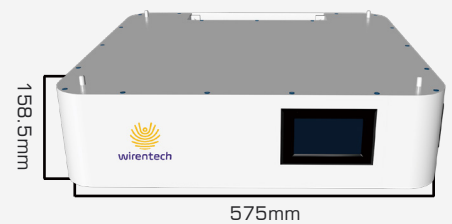
(Base sizes)



Side View



Front View



Individual Battery Modules



Scan the QR code to download the latest information

*Note: The default BMS in the module allows for 100A charging current maximum. To achieve higher charging currents, please navigate to <https://www.wirentech.com> for the most up to date firmware. Please also make note that if the battery firmware is updated to allow 200A maximum charge, the internal thermal sensors will throttle the charge current to what the BMS deems necessary to prevent overheating.