WT5280

51.2V STACKED BATTERY

Our WT5280 stacked series battery is a LiFePo4 battery with smaller size, lighter weight and longer life span, adopting high energy density LFePo4 cells with higher safety and longer cycle life.

wirentech

contact details

+86-755-28380586
office@wirentech.com
www.wirentech.com
No.602, Block C, Innovation Plaza, No.2007, Pingshan Avenue, Pingshan District,Shenzhen, China.

Safety Certified via:
ISO 9001, IEC 62619
EMC, UN38.3, MSDS

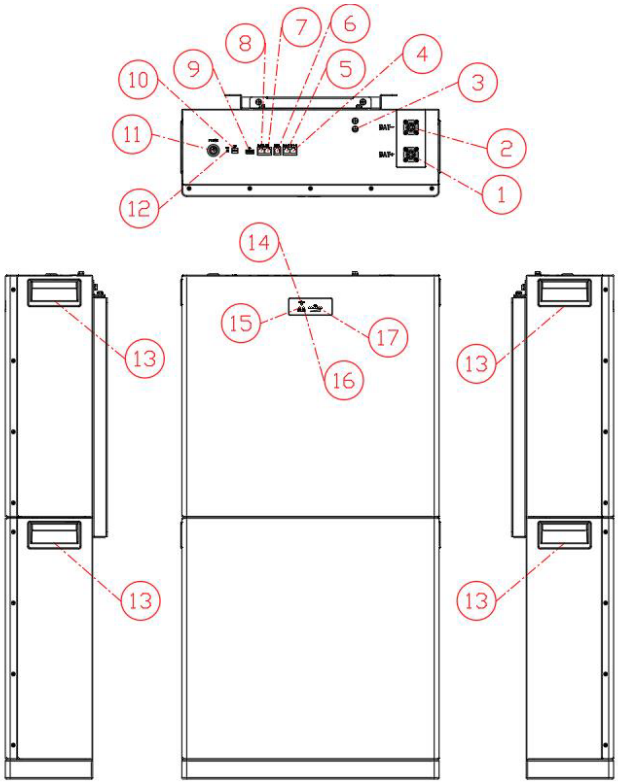
Energy	Size	10 Years
51.2V 280Ah (14.33KWh)	530x180x1040mm	Warranty

★ Features

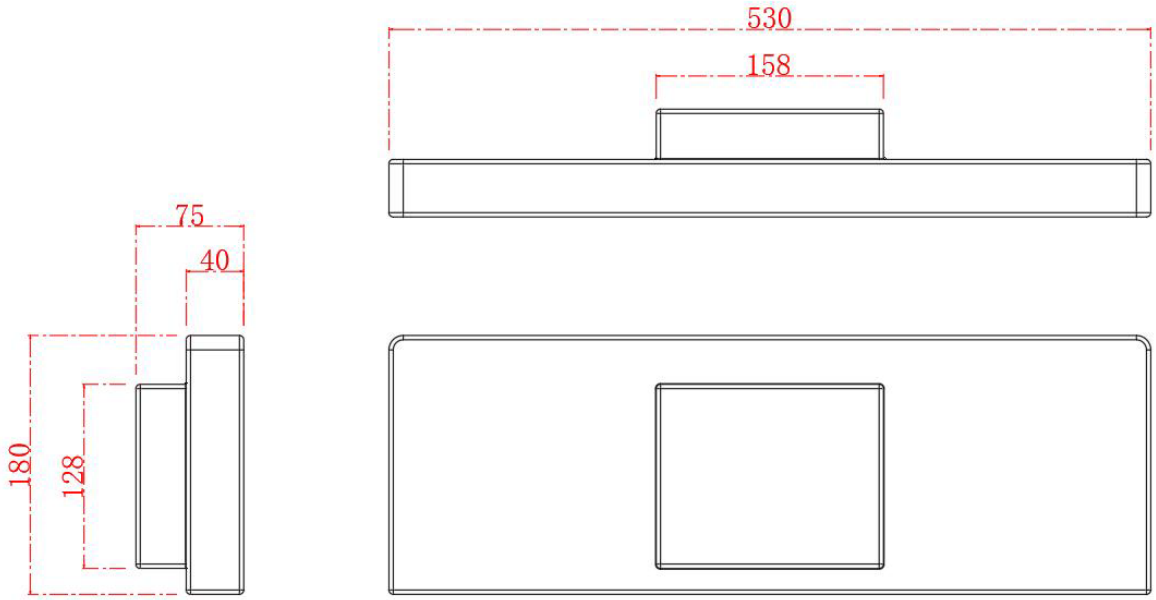
1. Adopting new LiFePo4 cell, safer and longer cycle life.
2. Advanced battery management system, real-time management, efficient management of the battery system, fast response time. 3.Three communication methods are available: CAN, RS485 and RS232.
4. LED power and operation indicator, dynamic display of battery power and operation status. 5.Stacked construction for simple and easy installation.
6. With power-saving mode function, it automatically enters into sleep mode with no load.
7. Adoption of high-current stacked connectors, easy installation and operation, high over-current capacity.
8. The module comes with 100mA charge equalization
9. Output trunk nodes are available for use with inverters.
10. Short-circuit protection, over-voltage protection, under-voltage protection, SOC estimation, SOH estimation, overload protection, charge equalization, etc.

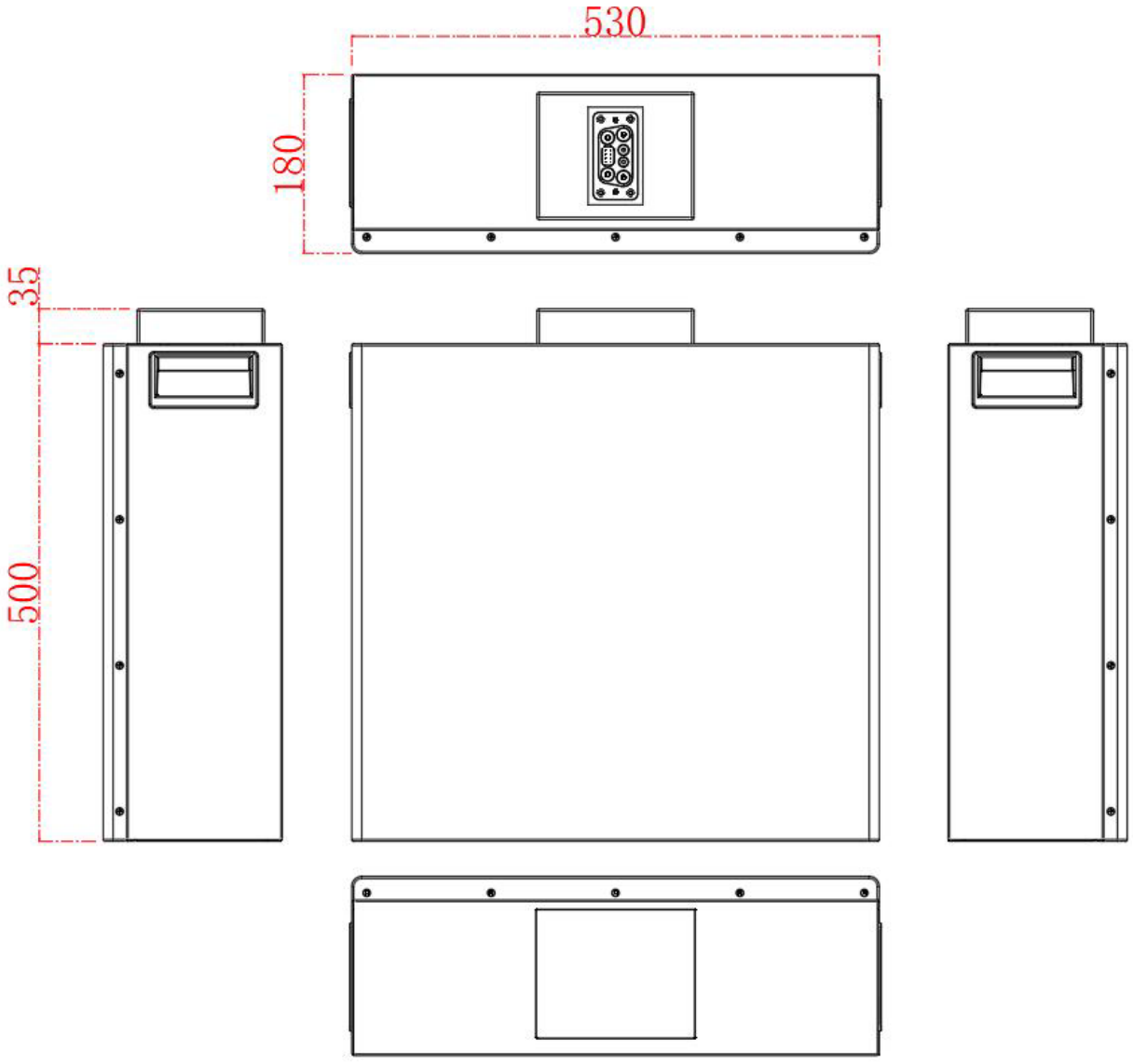
DIMENSIONS

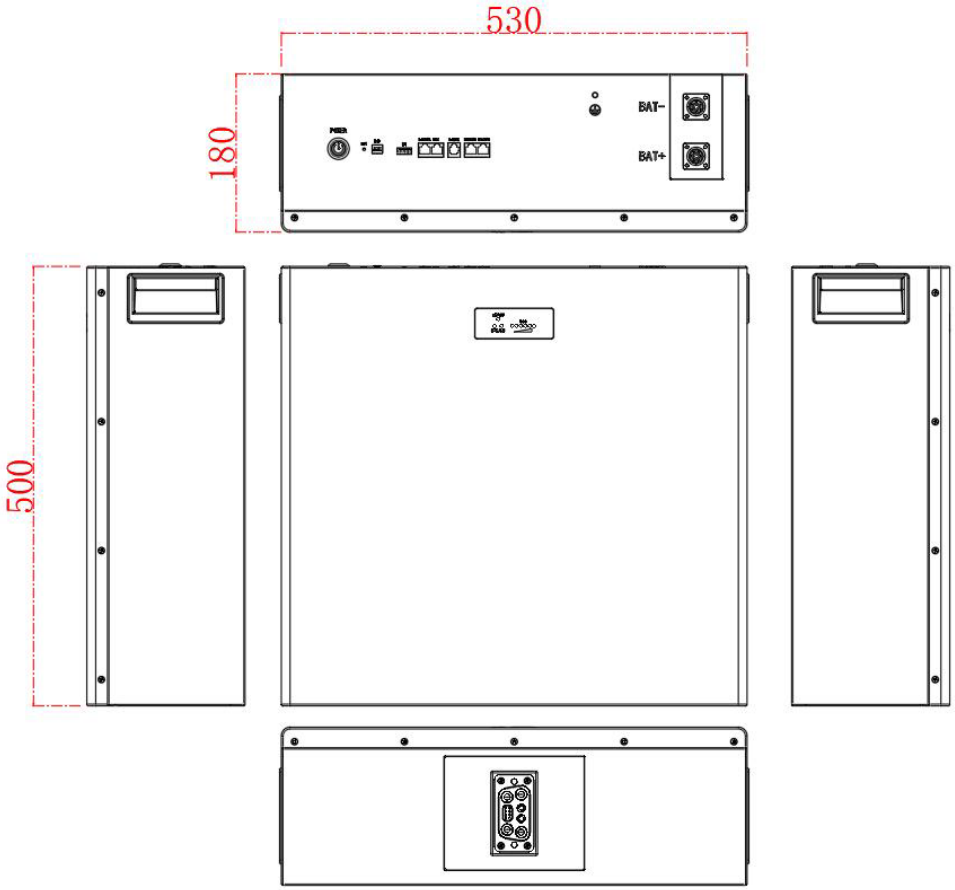
Technical Specification			
Operation Voltage	44 . 8V~ 57.5V		
Dimensions	530*180*1040mm		
Weight	83KG		
Warranty	10 Years		
LiFe Time	15 Years @ 68°F		
Cycle life	6000+		
Energy	51.2V 280Ah (14.33KWh)		
Max. Charge Voltage	57.6V		
Max. Charge Current	200A @77°F		
Max. Discharge Current	200A @77°F		
Energy 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		
BMS Parameters			
Charge	**Spec**	**Delay**	**Recovery**
Cell Voltage Protection	3.8V	1 sec	3.45V
Module Voltage Protection	15.0V	1 sec	13.8V
Over Charging Current 1	>220A	10 sec	
Over Charging Current 2	≥250A	3 sec	
Temperature Protection	<-5°C or >75°C	1 sec	>5°C or <65°C
Discharge			
Cell Voltage Protection	2.3V	1 sec	3.1V
Module Voltage Protection	9.6V	1 sec	12.0V
Over Charging Current 1	>220A	30 sec	60 sec
Over Charging Current 2	>380A	3 sec	60 sec
Short-Circuit	>775A	0.1 mS	
Temperature Protection	<-20°C or >75°C	1 sec	>-10°C or <65°C
BMS	**Parameter**		**Condition**
PCB Temperature Protection	>105°C	Delay 1 sec	Recovery @ <80°C
Cell Balance	100 mA	Passive Balance	Cell Voltage Difference >40mV
Temperature Accuracy	3%	Cycle Measurement	Measuring Range -40 to 100°C
Voltage Accuracy	0.5%	Cycle Measurement	For Cells & Module
Current Accuracy	3%	Cycle Measurement	Measuring Range -200 to 200°C
SOC	5%		Integral Calculation
Power Consumption - Sleep/Off Mode	<300uA	Sleep & Off Mode	Storage/Transport
Power Consumption - Operating Mode	<14mA	Operating Mode	Charging/Discharging

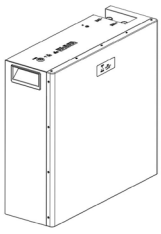
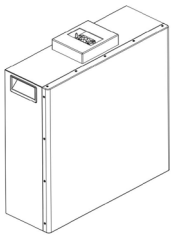
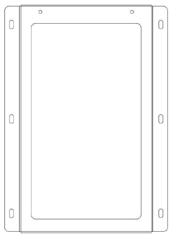
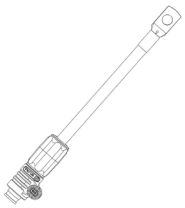
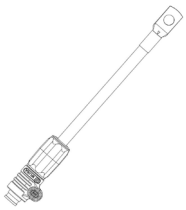


No.	Introductions	silkscreen	Remark
1	Battery Positive	BAT+	200A snap-in terminals/orange
2	Battery Negative	BAT-	200A snap-in terminals/Black
3	Reset Switch	RST	
4	DIP Switch	DIP	
5	Dry contact	DO	
6	RS485, connect PCS	RS485A	Connecting the inverter
7	CAN, connect PCS	CAN	Connecting the inverter
8	RS232 host computer communication	RS232	Connecting to the host computer
9	RS485 Parallel communication	RS485B	Battery Parallel Communication
10	RS485 Parallel communication	RS485B	Battery Parallel Communication
11	Enclosure grounding		Recommended for 6-10mm² cables
12	Power Switch	POWER	M22 Round Self-Locking Switch
13	Handle	/	
14	Operation Indicator	RUN	Green LED*1
15	Malfunction indicator	ALM	Red LED*1
16	Switch On/Off Indicator	ON/OFF	Green LED*1
17	Power indicator	SOC	Green LED*6


530
158
75
40
180
128


530
180
35
500



				
Upper battery module *1	Lower battery module*1	Base plate*1	Bracket1*1	Bracket2*1
				
2m positive wire	2m negative wire	2.0m cable*1	M6*14 combination screw*7	M6*50 exploding screw*4