LIGHT UP EVERY CORNER OF THE WORLD
WITH RENEWABLE ENERGY

Global Leading
Distributed
Energy
Solution Provider

ENERGY STORAGE SOLUTIONS
CATALOG

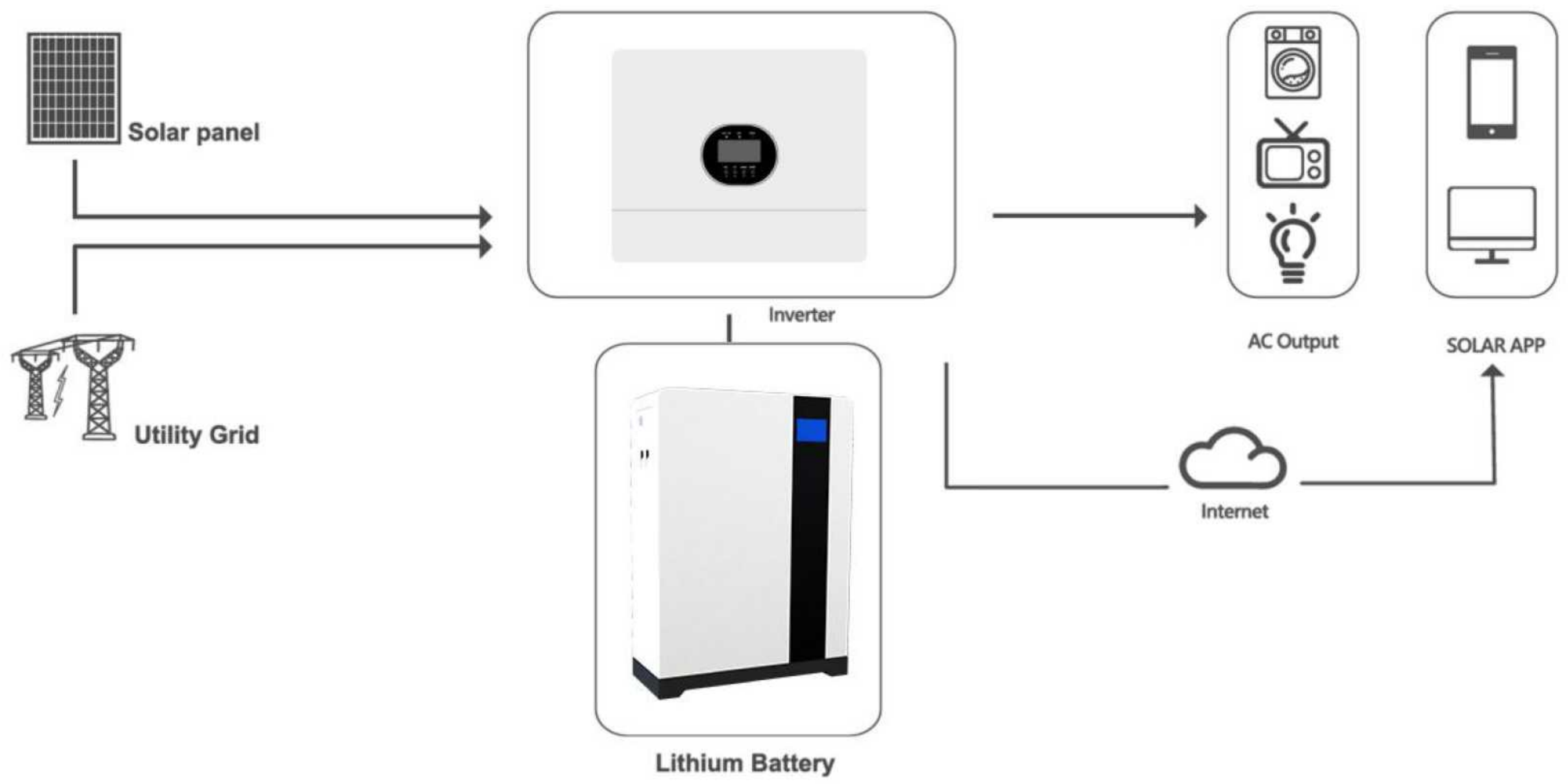
PRODUCT DISPLAY

NSTLV 10.2K

- Wall-mounted or ground installation.
- Support OEM/ ODM.
- Intelligent BMS management, WIFI module optional.
- Built-in display for easy monitor.
- All-in-one home style, easy to install.
- Excellent service life, 5 years warranty.

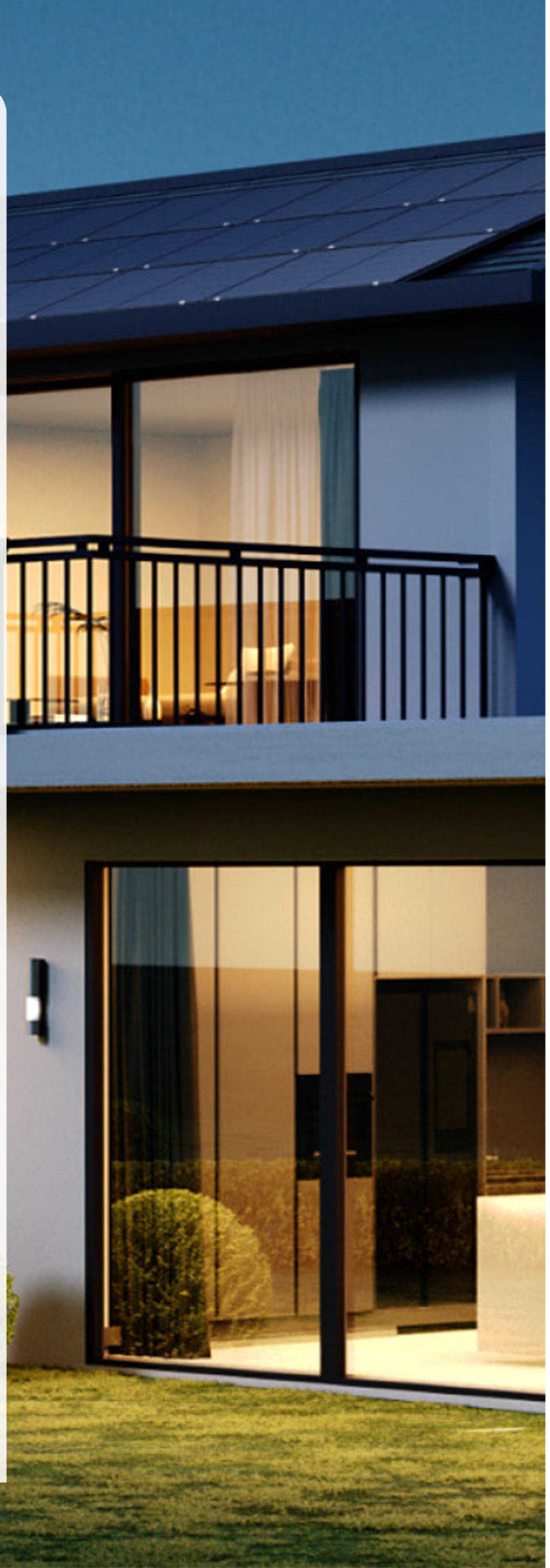
NSTLV-10.2K

Model	NSTLV-10.2K
Main Parameter	
Battery Chemistry	LiFePO4
Nominal Capacity (Ah)	200
Nominal Voltage (V)	51.2V
Operating Voltage(V)	46.4~57.6
Nominal Energy (kWh)	10.24
Usable Energy (kWh)	9.22 (90%DOD)
Scalability	Max.15 pcs pack in parallel
Rated DC Power(kW)	4.1
Max DC Power(kW)	6.14
Charge/Discharge Current (A)	Recommend:80
	Max:120
Other Parameter	
Recommend Depth of Discharge	90%
Dimension (W/D/H,mm)	519*204*712
Weight Approximate(kg)	95
IP Rating of Enclosure	IP54
Operating Temperature	0℃~60℃
Storage Temperature	0℃~35℃
Humidity	5%~85%
Altitude	≤2000m
Cycle Life	≥6000 times
Installation	Wall-Mounted, Floor-Mounted
Cooling Mode	Natural Cooling
Communication Port	CAN,RS485，RS232
Warranty Period	5+5 years
Certification	UN38.3, CE, ROHS, IEC62619
The current is affected by temperature and SOC	



NSTLV 14.3/16K

- Ground installation.
- Support OEM/ ODM.
- Intelligent BMS management, WIFI module optional.
- Built-in display for easy monitor.
- All-in-one home style, easy to install.
- Excellent service life, 5 years warranty.



NSTLV-14.3/16K

Model	NSTLV-14.3K	NSTLV-16K
Main Parameter		
Battery Chemistry	LiFePO4	LiFePO4
Nominal Capacity (Ah)	280	314
Nominal Voltage (V)	51.2	51.2
Operating Voltage(V)	46.4~57.6	46.4~57.6
Nominal Energy (kWh)	14.34	16.08
Usable Energy (kWh)	12.90 (90%DOD)	14.47 (90%DOD)
Scalability	Max. 15 pcs pack in parallel	Max. 15 pcs pack in parallel
Rated DC Power(kW)	7.17	7.17
Max DC Power(kW)	10.24	10.24
Charge/Discharge Current (A)	Recommend:140	Recommend:140
	Max:200	Max:200
Other Parameter		
Recommend Depth of Discharge	90%	90%
Dimension (W/D/H,mm)	519*204*854	519*204*854
Weight Approximate(kg)	125.3	127.3
IP Rating of Enclosure	IP54	IP54
Operating Temperature	0℃~60℃	0℃~60℃
Storage Temperature	0℃~35℃	0℃~35℃
Humidity	5%~85%	5%~85%
Altitude	≤2000m	≤2000m
Cycle Life	≥10000 times	≥11000 times
Installation	Floor-Mounted	Floor-Mounted
Cooling Mode	Natural Cooling	Natural Cooling
Communication Port	CAN,RS485，RS232	CAN,RS485，RS232
Warranty Period	5+5 years	5+5 years
Certification	UN38.3, CE, ROHS	UN38.3, CE, ROHS, IEC62619
The current is affected by temperature and SOC		

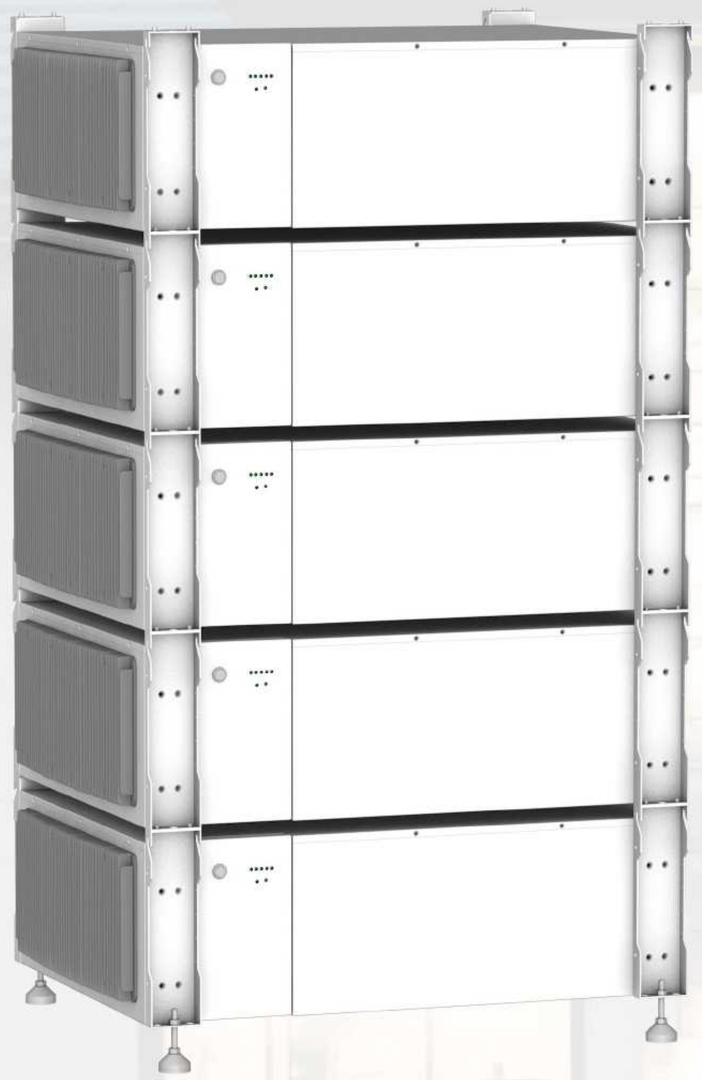
51.2V 100Ah,200Ah, 280Ah,314Ah

- Lower cost, flexible capacity options.
- Support OEM/ ODM.
- Built-in protection off switch.
- Intelligent BMS management.
- Flexible stack, save space.
- Excellent service life, 5 years warranty.

51.2V 100Ah,200Ah,280Ah,300Ah

Model	51.2V100Ah-LV	51.2V200Ah-LV	51.2V280Ah-LV	51.2V314Ah-LV
Main Parameter				
Battery Chemistry	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Nominal Capacity (Ah)	100	200	280	314
Nominal Voltage (V)	51.2V	51.2V	51.2V	51.2V
Operating Voltage(V)	46.4~57.6	46.4~57.6	46.4~57.6	46.4~57.6
Nominal Energy (kWh)	5.12	10.24	14.34	16.08
Usable Energy (kWh)	4.61 (90%DOD)	9.22 (90%DOD)	12.9 (90%DOD)	14.47 (90%DOD)
Scalability	Max. 15 pcs pack in parallel			
Rated DC Power(kW)	2.56	4.1	7.17	7.17
Max DC Power(kW)	4.1	6.14	10.24	10.24
Charge/Discharge Current (A)	Recommend:50	Recommend:80	Recommend:140	Recommend:140
	Max:80	Max:120	Max:200	Max:200
Other Parameter				
Recommend Depth of Discharge	0.9	0.9	0.9	0.9
Dimension (W/D/H,mm)	355*567*150	383*605*240	387*745*240	387*745*240
Weight Approximate(kg)	42.5	77	102.2	105.4
IP Rating of Enclosure	IP20	IP20	IP20	IP20
Operating Temperature	0℃~60℃	0℃~60℃	0℃~60℃	0℃~60℃
Storage Temperature	0℃~35℃	0℃~35℃	0℃~35℃	0℃~35℃
Humidity	5%~85%	5%~85%	5%~85%	5%~85%
Altitude	≤2000m	≤2000m	≤2000m	≤2000m
Cycle Life	≥6000 times	≥6000 times	≥10000 times	≥11000 times
Installation	Stack Mounting，Iron Frame Mounting			
Cooling Mode	Natural Cooling			
Communication Port	CAN,RS485，RS232			
Warranty Period	5+5 years			
Certification	UN38.3,MSDS,CE,ROHS	UN38.3,MSDS,CE,ROHS,IEC62619		
The current is affected by temperature and SOC				

51.2V 200Ah-BV



- Battery pack output rated voltage 400V, flexible configuration of mainstream high voltage inverter.
- Up to 8 stacks, space-saving.
- Concealed wiring, neat appearance.
- Completely solve the problem of inconsistent "barrel effect" of battery core capacity.
- The battery pack adopts a stacked steel form, flexible layout.

51.2V 200Ah-BV

Model	51.2V200Ah-BV						
Main Parameter							
Cell Chemistry	LiFePO4						
Module Energy (kWh)	10.24						
Module Nominal Voltage (V)	51.2						
Module Capacity (Ah)	200						
Module Dimension (W/D/H,mm)	757*520*232						
Module Weight Approximate (kg)	94						
Battery Module Qty In Parallel (Optional)	4	5	6	7	8	9	10
Battery Voltage Range (V)	46.4~57.9						
System Operating Voltage (V)	330~450						
System Energy (kWh)	40.96KW.h	51.2KW.h	61.44KW.h	71.68KW.h	81.92KW.h	92.16KW.h	102.4KW.h
System Usable Energy (kWh)	36.86 (90%DOD)	46.08 (90%DOD)	55.3 (90%DOD)	64.51 (90%DOD)	73.73 (90%DOD)	82.94 (90%DOD)	92.16 (90%DOD)
Charge/Discharge Current(A)	Recommend：12.5 Max：16						
Working Temperature (°C)	0~60						
Cooling Mode	Natural Cooling						
Communication Port	CAN/RS485						
Humidity	5%~85%RH						
Altitude	≤2000m						
IP Rating of Enclosure	IP21						
Installation Location	Stack Mounting，Iron Frame Mounting						
Storage Temperature (°C)	0~35						
Recommend Depth of Discharge	0.9						
Cycle Life	≥6000 times						
Warranty	5+5 years						
Certification	CE,MSDS,UN38.3						
The current is affected by temperature and SOC							

51.2V 100Ah-HV

- Compact structure, save more space.
- Flexible layout, easy installation, operation and maintenance.
- BCU & BMU total secondary BMS intelligent management.
- Built-in protection off switch.
- Standard color display and WIFI module.
- Support 4 sets in parallel.
- Support OEM/ ODM.

51.2V 100Ah-HV

Model	51.2V100Ah-HV						
Main Parameter							
Cell Chemistry	LiFePO4						
Module Energy	5.12kWh						
Module Nominal Voltage	51.2V						
Module Capacity	100Ah						
Module Dimension	355*567*150(W/D/H,mm)						
Module Weight Approximate	42.5kg						
Battery Module Qty In Series	4(Optional)	5(Optional)	6(Optional)	7(Optional)	8(Optional)	9(Optional)	10(Optional)
System Nominal Voltage	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V
System Operating Voltage	185.6~230.4V	232~288V	278.4~345.6V	324.8~403.2V	371.2~460.8V	417.6~518.4V	464~576V
System Energy	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.2kWh
System Usable Energy	18.43 (90%DOD)	23.04 (90%DOD)	27.65 (90%DOD)	32.26 (90%DOD)	36.86 (90%DOD)	41.47 (90%DOD)	46.08 (90%DOD)
Charge/Discharge Current	Recommend：50A Max：50A						
Working Temperature	0~60°C						
Cooling Mode	Natural Cooling						
Communication Port	CAN/RS485						
Humidity	5%~85%RH						
Altitude	≤2000m						
IP Rating of Enclosure	IP21						
Dimension	355*567*830 (W/D/H,mm)						
Weight Approximate	185kg						
Iron Frame Dimension	355*567*1370(W/D/H,mm)						
Iron Frame Weight Approximate	45kg						
Installation Location	Stack Mounting，Iron Frame Mounting						
Storage Temperature	0~35°C						
Recommend Depth of Discharge	0.9						
Cycle Life	≥6000 times						
Warranty	5+5 years						
Certification	UN38.3,MSDS,CE,ROHS						
The current is affected by temperature and SOC							

51.2V 200Ah-HV

- Compact structure, save more space.
- Flexible layout, easy installation, operation and maintenance.
- BCU & BMU total secondary BMS intelligent management.
- Built-in protection off switch.
- Standard color display and WIFI module.
- Support 4 sets in parallel.
- Support OEM/ ODM.

51.2V 200Ah-HV

Model	51.2V200Ah-HV									
Main Parameter										
Cell Chemistry	LiFePO4									
Module Energy	10.24kWh									
Module Nominal Voltage	51.2V									
Module Capacity	200Ah									
Module Dimension	395*547*265(W/D/H,mm)									
Module Weight Approximate	77kg									
Battery Module Qty In Series	4 (Optional)	5 (Optional)	6 (Optional)	7 (Optional)	8 (Optional)	9 (Optional)	10 (Optional)	11 (Optional)	12 (Optional)	MAX 17pcs
System Nominal Voltage	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V	
System Operating Voltage	185.6~230.4V	232~288V	278.4~345.6V	324.8~403.2V	371.2~460.8V	417.6~518.4V	464~576V	510.4~633.6V	556.8~691.2V	
System Energy	40.96 KW.h	51.2 KW.h	61.44 KW.h	71.68 KW.h	81.92 KW.h	92.16 KW.h	102.4 KW.h	112.6 KW.h	122.9 KW.h	
System Usable Energy	36.86 (90%DOD) kWh	46.08 (90%DOD) kWh	55.3 (90%DOD) kWh	64.51 (90%DOD) kWh	73.73 (90%DOD) kWh	82.94 (90%DOD) kWh	92.16 (90%DOD) kWh	101.4 (90%DOD) kWh	110.6 (90%DOD) kWh	
Charge/Discharge Current	Recommend：80A Max：100A									
Working Temperature	0~60°C									
Cooling Mode	Natural Cooling									
Communication Port	CAN/RS485									
Humidity	5%~85%RH									
Altitude	≤2000m									
IP Rating of Enclosure	IP21									
Dimension	383*605*1190(W/D/H,mm)									
Weight Approximate	323kg									
Iron Frame Dimension	383*605*1880(W/D/H,mm)									
Iron Frame Weight Approximate	64kg									
Installation Location	Stack Mounting，Iron Frame Mounting									
Storage Temperature	0~35°C									
Recommend Depth of Discharge	0.9									
Cycle Life	≥6000 times									
Warranty	5+5 years									
Certification	CE,MSDS,UN38.3									
The current is affected by temperature and SOC										

51.2V280Ah-HV

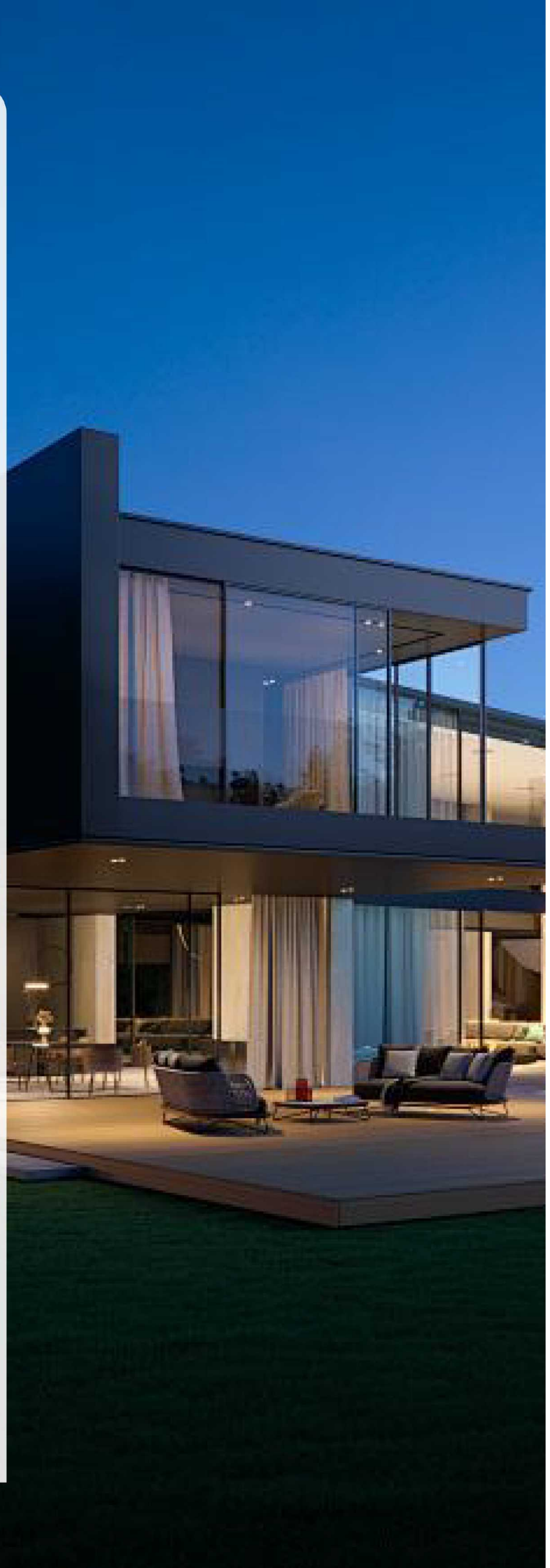
- Compact structure, save more space.
- Flexible layout, easy installation, operation and maintenance.
- BCU & BMU total secondary BMS intelligent management.
- Built-in protection off switch.
- The cooling fan plus the porous heat dissipation structure can effectively reduce the temperature.
- Standard color display and WIFI module.
- Support 4 sets in parallel.
- Support OEM/ ODM.

51.2V280Ah-HV

Model	51.2V280Ah-HV									
Main Parameter										
Cell Chemistry	LiFePO4									
Module Energy	14.34kWh									
Module Nominal Voltage	51.2V									
Module Capacity	280Ah									
Module Dimension	498*798*227(W/D/H,mm)									
Module Weight Approximate	116kg									
Battery Module Qty In Series	8(Optional)	9(Optional)	10(Optional)	11(Optional)	12(Optional)	13(Optional)	14(Optional)	15(Optional)	16(Optional)	17(Optional)
System Nominal Voltage	409.6V	460.8V	512V	563.2V	614.4V	665.6V	716.8V	768V	819.2V	870.4V
System Operating Voltage	371.2~460.8V	417.6~518.4V	464~576V	510.4~633.6V	556.8~691.2V	603.2~748.8V	649.6~806.4V	696~864V	742.4~921.6V	788.8~979.2V
System Energy	114.69 kWh	129.02 kWh	143.36 kWh	157.7 kWh	172.03 kWh	186.37 kWh	200.7 kWh	215.04 kWh	229.38 kWh	243.71 kWh
System Usable Energy	103.22 (90%DOD)kWh	116.12 (90%DOD)kWh	129.02 (90%DOD)kWh	141.93 (90%DOD)kWh	154.83 (90%DOD)kWh	167.73 (90%DOD)kWh	180.63 (90%DOD)kWh	193.54 (90%DOD)kWh	206.44 (90%DOD)kWh	219.34 (90%DOD)kWh
Charge/Discharge Current	Recommend：140A Max：170A									
Working Temperature	-10~55°C									
Cooling Mode	Fan Cooling									
Communication Port	CAN/RS485									
Humidity	5%~95%RH									
Altitude	≤2000m									
IP Rating of Enclosure	IP20									
Dimension (W/D/H,mm)	1048*831*1281	1048*831*1281	1048*831*1531	1048*831*1531	1048*831*1781	1048*831*1781	1048*831*2031	1048*831*2031	572*831*1531	1572*831*1531
Weight Approximate	1188kg	1304kg	1420kg	1536kg	1652kg	1768kg	1884kg	2000kg	2126kg	2242kg
Installation Location	Iron Frame Mounting									
Storage Temperature	0~35°C									
Recommend Depth of Discharge	0.9									
Cycle Life	≥8000 times									
Warranty	5+5 years									
Certification	UN38.3,MSDS				UN38.3,MSDS,CE				UN38.3,MSDS	
The current is affected by temperature and SOC										

NSTFW 16K-HV

- The battery cells are designed horizontally, with a lower height. Up to 8 stacks n a single row, space-saving.
- The front of the battery pack is designed with a decorative cover, neat appearance.
- The battery pack adopts a stacked steel form, flexible layout.
- The main control box is equipped with a screen, intuitive viewing of parameters.
- Up to 17 battery packs can be freely connected in series and combined.



NSTFW-16K-HV

Model	51.2V314Ah-HV									
Main Parameter										
Cell Chemistry	LiFePO4									
Module Energy	16.08kWh									
Module Nominal Voltage	51.2V									
Module Capacity	314Ah									
Module Dimension	771*550*200(W/D/H,mm)									
Module Weight Approximate	118kg									
Battery Module Qty In Series	5 (Optional)	6 (Optional)	7 (Optional)	8 (Optional)	9 (Optional)	10 (Optional)	11 (Optional)	12 (Optional)	13 (Optional)	14 (Optional)
System Nominal Voltage	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V	665.6V	716.8V
System Operating Voltage	232~288V	278.4~345.6V	324.8~403.2V	371.2~460.8V	417.6~518.4V	464~576V	510.4~633.6V	556.8~691.2V	603.2~748.8V	649.6~806.4V
System Energy	80.38kWh	96.46kWh	112.54kWh	128.61kWh	144.69kWh	160.77kWh	176.84kWh	192.92kWh	209kWh	225.08kWh
System Usable Energy (kWh)	72.34 (90%DOD)	86.81 (90%DOD)	101.29 (90%DOD)	115.75 (90%DOD)	130.22 (90%DOD)	144.69 (90%DOD)	159.16 (90%DOD)	173.63 (90%DOD)	188.10 (90%DOD)	202.57 (90%DOD)
Charge/Discharge Current	Recommend：160A Max：200A									
Working Temperature	-10~55℃									
Cooling Mode	Fan Cooling									
Communication Port	CAN/RS485									
Humidity	5%~95%RH									
Altitude	≤2000m									
IP Rating of Enclosure	IP20									
Dimension (W/D/H,mm)	776*577*1505	776*577*1725	(776*2)*577*1065	(776*2)*577*1285	(776*2)*577*1285	(776*2)*577*1505	(776*2)*577*1505	(776*2)*577*1725	(776*2)*577*1725	(776*3)*577*1285
Weight Approximate	660kg	782kg	904kg	1076kg	1198kg	1320kg	1442kg	1564kg	1666kg	1808kg
Installation Location	Stack Mounting, Iron Frame Mounting									
Storage Temperature	0~35℃									
Recommend Depth of Discharge	90%									
Cycle Life	≥8000 times									
Warranty	5+5 years									
Certification	CE,MSDS,UN38.3									
The current is affected by temperature and SOC										

HV51.2V 200Ah

- Compact structure, save more space.
- Built-in air conditioning temperature control system.
- BCU & BMU total secondary BMS intelligent management.
- Built-in protection off switch.
- Inverter optional,become Integrated systems.
- The Integrated system supports up to ten sets in parallel.
- Support OEM/ ODM.

HV51.2V 200Ah

Model	HV51.2V200Ah					
Main Parameter						
Cell Chemistry	LiFePO4					
Module Energy	10.2kWh					
Module Nominal Voltage	51.2V					
Module Capacity	200Ah					
Module Dimension	605*383*240(W/D/H,mm)					
Module Weight Approximate	77kg					
Battery Module Qty In Series	6(Optional)	7(Optional)	8(Optional)	9(Optional)	10(Optional)	11(Optional)
System Nominal Voltage	307.2V	358.4V	409.6V	460.8V	512V	563.2V
System Operating Voltage	278.4-345.6V	324.8-403.2V	371.2-460.8V	417.6-518.4V	464-576V	510.4-633.6V
System Energy	61.44kWh	71.68kWh	81.92kWh	92.16kWh	102.4kWh	112.64kWh
System Usable Energy	55.3kWh	64.51kWh	73.73kWh	82.94kWh	92.16kWh	101.38kWh
Charge/Discharge Current	Recommend：50A					
	Max：100A					
Working Temperature	-20~60°C					
Cooling Mode	Air Conditioner					
Communication Port	CAN/RS485					
Humidity	5%~85%RH					
Altitude	<2000m					
IP Rating of Enclosure	IP65					
Dimension	1394*1015**2164.5(W/D/H,mm)					
Weight Approximate	868kg					
Installation Location	Integrated cabinet Installation					
Storage Temperature	0~35°C					
Recommend Depth of Discharge	0.9					
Cycle Life	≥6000 times					
Warranty	5+5 years					
Certification	UN38.3,MSDS,CE,ROHS,IEC62619					
The current is affected by temperature and SOC						

CONTAINER ENERGY STORAGE

- Container type energy storage, large capacity.
- High adaptability of installation environment.
- IP65, intelligent fire protection device.
- Hot and cold air conditioner + fan cooling device, intelligent adjustment of internal temperature.
- Intelligent BMS management, EMS intelligent monitoring.
- Support OEM/ODM.
- Excellent service life, 5 years warranty.

CONTAINER ENERGY STORAGE

Model	510kWh	1mWh
Main Parameter		
Cell Chemistry	LiFePO4	
Module Energy	10.24 kWh	
Module Nominal Voltage	51.2V	
Module Capacity	200Ah	
Module Dimension	383*605*240(W/D/H,mm)	
Module Weight Approximate	77kg	
Battery Module Qty In Series	10*5(Optional)	10*10(Optional)
System Nominal Voltage	512V	512V
System Operating Voltage	464~576V	464~576V
System Energy	512kWh	1024kWh
System Usable Energy	460.8kWh (90%DOD)	921.6kWh (90%DOD)
Charge/Discharge Current	Recommend：80A Max：100A	
Working Temperature	-30~60°C	
Cooling Mode	Air Conditioner	
Communication Port	CAN/RS485/Ethernet	
Humidity	5%~95%RH	
Altitude	≤3000m	
IP Rating of Enclosure	IP65	
Dimension	4991*2691*2591(W/D/H,mm)	4991*（2691*2）*2591(W/D/H,mm)
Weight Approximate	4200kg	8400kg
Installation Location	Integrated cabinet Installation	
Storage Temperature	0~35°C	
Recommend Depth of Discharge	0.9	
Cycle Life	≥6000 times	
Warranty	5+5 years	
Certification	UN38.3,MSDS	

The current is affected by temperature and SOC

Typical Application Scenarios

Residential solar energy storage system includes solar panel, energy storage battery, and management system, provides stable and efficient energy solutions for households. It converts light energy into electricity via solar panels and stores excess power in batteries for use at night or on cloudy days. This system not only reduces the dependence on the grid for electricity, but also saves electricity bills and improves energy efficiency. In addition, the household energy storage system can also provide backup power in the event of a power outage, improving the energy security and independence of the home. By reducing carbon emissions, it also contributes to environmental protection and sustainable development.Overall, it's an ideal choice for modern home energy management.

Industrial & commercial solar energy storage system integrates solar panels with large-capacity batteries to provide efficient and reliable energy solutions for industrial and commercial applications. During daylight hours, solar panels convert sunlight into electricity, which can be used immediately or stored in batteries for later use. This system helps reduce electricity costs, lower dependence on the grid, and ensure energy availability during peak demand or outages. Additionally, it promotes sustainability by reducing carbon emissions and supporting environmental goals. Overall, it's a cost-effective, resilient, and eco-friendly energy option.

World-Class

Components Suppliers

Chooses world-class suppliers to ensure the high quality of its products.

Low Voltage

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High Voltage

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