

Over 15 years of ODM manufacturing

SOLAR POWER SYSTEM 2026



 <https://www.entelechypower.com>



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ISO Quality Management System:



ISO9001



ISO14001



ISO45001



ISO13485



IATF16949

Certificate:



RoHS



CE



IEC



MSDS



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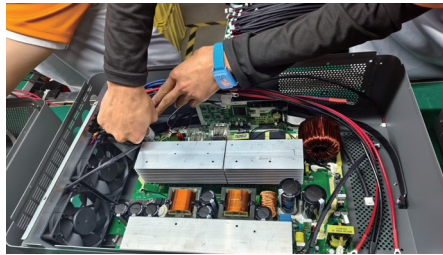
MSDS

Our advantages:

Entelechy is a leading manufacturer of solar energy storage system in China.

We have over 15 years experience in OEM/ODM manufacturing.

We provide off grid solar system and household solar system design, Industrial&Commercial BESS. Our products are exported to many countries, and we have won market recognition with our professional service and stable quality.



Portable Energy Storage (EU/US)

DESCRIPTION

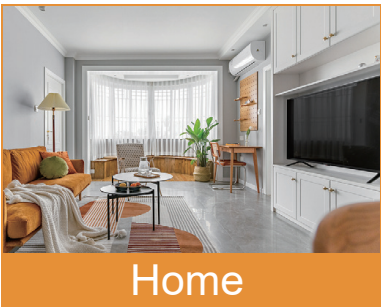


PARAMETERS

Model	BST-SAL-300W-EU			BST-SAL-500W-EU			BST-SAL-1000W-EU			BST-SAL-300W-US			BST-SAL-500W-US			BST-SAL-1000W-US		
AC Input (Generator/Grid)																		
Input Voltage	90-280V						85-135V											
Frequency	60Hz						60Hz											
Mains Charging Efficiency	>95%						>95%											
AC Output																		
Output Voltage	220-240V						100-120V											
Output Voltage Waveform	Pure Sine Wave						Pure Sine Wave											
Rated Output Voltage	220Vac±5Vac						110Vac±5Vac											
Rated Output Power	300W	500W		1000W			300W	500W		1000W								
Output Frequency Range(Hz)	60Hz±0.5%						60Hz±0.5%											
Maximum Efficiency	>86%						>86%											
Core Parameters																		
Battery Materials	LiFePO4						LiFePO4											
Rated Capacity	650Wh	1000Wh		2000Wh			650Wh	1000Wh		2000Wh								
Cell Life	≥10000 times						≥10000 times											
USB	2.0 Charging port						2.0 Charging port*2											
Type-C	PD 20W Fast charge						PD 20W Fast charge											
EPS	UPS						UPS											
EPS Time	<50ms						<50ms											
General Parameters																		
Crafts	Metal Spraying						Metal Spraying											
PV Input Voltage Range	12-60V						12-60V											
PV Maximum Charging Power	250W	300W		550W			250W	300W		550W								
Inverter Output	220VAC						110VAC											
Charging Mode	AC / PV Charger						AC / PV Charger											
AC Outlet	Global Specification						Global Specification											
AC Charging Power	300W	500W		1000W			300W	500W		1000W								
Battery Indicator	5 LEDs	6 LEDs					4 LEDs	6 LEDs										
Dimension(mm)	250*230*175	275*190*246		280*230*285			250*230*175	275*190*246		280*230*285								
Carton(mm)	300*280*215	325*240*310		330*280*350			300*280*215	325*240*310		330*280*350								
Net Weight(kg)	8.45	12.05		18.5			10	12.05		18.5								
Gross Weight(kg)	9.55	13		20.1			10.8	13		20.1								
Working Environment																		
Operating Noise	<50dB						<50dB											
Operating Temperature	-10~40℃						-10~40℃											
Operating Humidity	20~95%RH						20~95%RH											
Storage Temperature	-15~60℃						-15~60℃											
Storage Humidity	5-95%RH						5-95%RH											

FEATURES

- Bidirectional Inversion
- High Cost Perfomance
- LiFePO4 Battery
- Metal Housing
- Safe and reliable



Solar Power Generator (EU)



Product features:

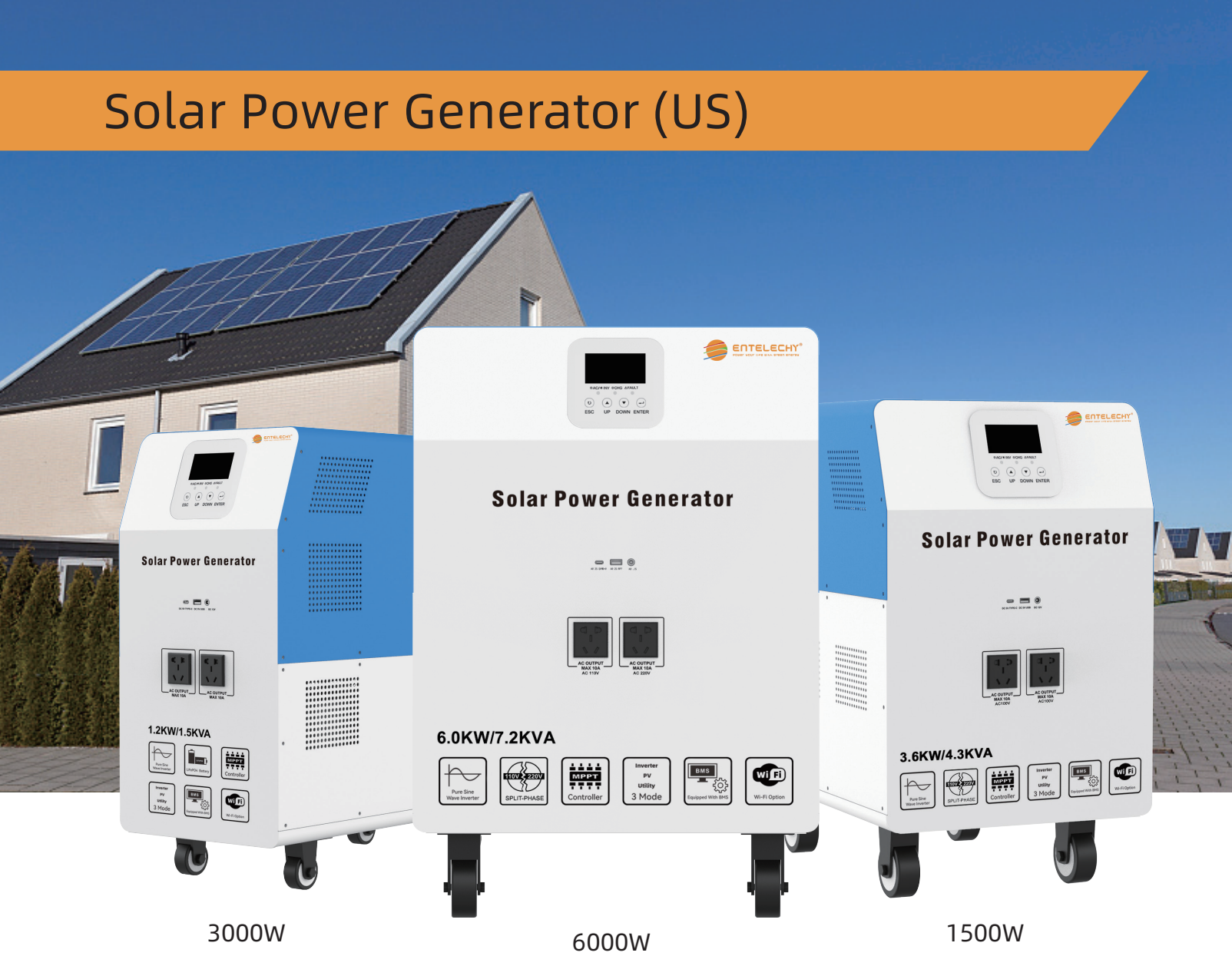
- ◆ All in one design: inverter, controller and battery all built-in, easy to install and use.
- ◇ Wide PV input range (120Vdc -500Vdc), 110A MPPT controller.
- ◆ Hybrid mode: can be charged by solar and grid, charging time is around 3-5 hours.
- ◇ LiFePO4 battery: lithium battery with 10 years lifespan and more than 6000 times cycle.
- ◆ Multiple outputs: 220V AC, USB DC, 12V DC, TYPE-C.
- ◇ Multi-protection: Overload, overvoltage, low voltage, high temperature, etc..

Application:



Model		BST-SPSS-1500W	BST-SPSS-3000W	BST-SPSS-6200W
Input	Rated power	1500W	3000W	6200W
	Peak power	3000W	6000W	12400W
Battery voltage		12(12.8)VDC	24(25.6)VDC	48(51.2)VDC
Output	AC input voltage range	170-280VAC		
	AC input frequency range	45Hz~65Hz(50Hz/60Hz automatic recognition)		
	Output voltage (Battery mode)	230VAC+5%		
	Output frequency (Battery mode)	50Hz or 60Hz		
	Output waveform (Battery mode)	Pure sine wave		
AC charger	AC charging current	Max 60A		
	AC charging method	Three-stage (constant current, constant voltage, floating charge)		
Solar charger	Charging mode	MPPT SMART controller		
	Max PV input voltage (at 25°C)	450V	500V	500V
	PV input voltage range	40~450V	60~500V	60~500V
	Charge & discharge current	80A	100A	100A
	Max PV input power	1500W	3000W	6200W
Solar panel	Solar panel standard	2*590W/41V (2S1P)	3*590W/41V (3S1P)	6*590W/41V (6S1P)
Inbuilt battery	Capacity	1*12.8V 300AH	1*25.6V300AH	1*51.2V300AH
Transfer time		10ms (for personal computers); 20ms (for home appliances)		
Environment	Operating temperature	0°C~55°C		
	Storage temperature	-15°C~60°C		
Net weight(kg) (with battery)		41.9	66.1	109
Dimention: L*W*H (mm)		520*260*562	520*376*540	680*455*540

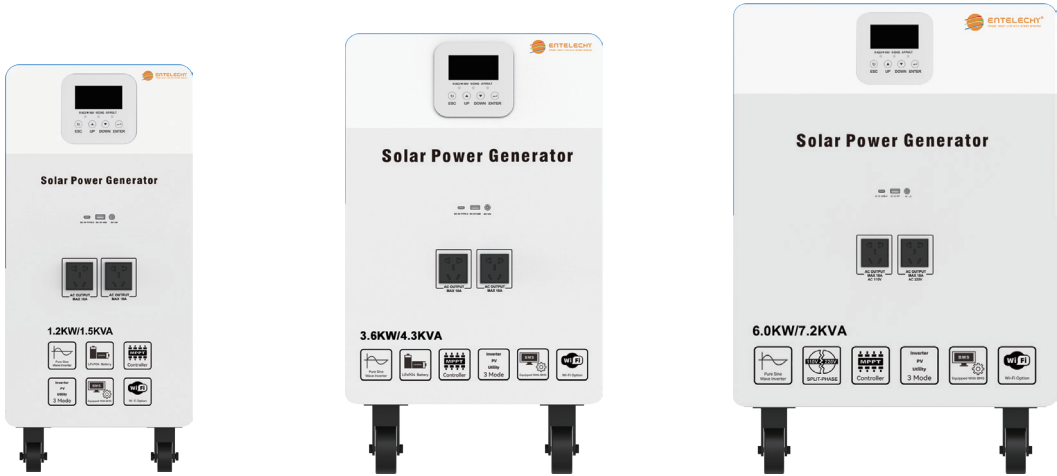
Solar Power Generator (US)



Product features:

- ◆ All in one design: inverter, controller and battery all built-in, easy to install and use.
- ◇ Wide PV input range (120Vdc -500Vdc), 110A MPPT controller.
- ◆ Hybrid mode: can be charged by solar and grid, charging time is around 3-5 hours.
- ◇ LiFePO4 battery: lithium battery with 10 years lifespan and more than 6000 times cycle.
- ◆ Multiple outputs: 220V AC, USB DC, 12V DC, TYPE-C.
- ◇ Multi-protection: Overload, overvoltage, low voltage, high temperature, etc..

Application:



Model		BST-SPSS-1200W-U	BST-SPSS-3600W-U	BST-SPSS-6000W-U
Rated power		1200W	3600W	6000W
Peak power		2400W	7200W	12000W
Battery voltage		12(12.8)VDC	48(51.2)VDC	48(51.2)VDC
Input	AC input voltage range	110V:90-140VAC		110VAC/220VAC
	AC input frequency range	45Hz~65Hz(50Hz/60Hz automatic recognition)		
Output	Output voltage (Battery mode)	110VAC±5%		110VAC/220VAC±5%
	Output frequency (Battery mode)	50Hzor60Hz		
	Output waveform (Battery mode)	Pure Sine Wave		
	Output voltage (AC mode)	110VAC±10%		110VAC/220VAC±10%
	Output frequency (AC mode)	Tracking Automatically		
AC charger	AC charging current	50A	40A	120A
	AC charging method	Three-stage(constant current,constant voltage,floating charge)		
Solar charger	Charging mode	SMART controller		
	Max PV input voltage (at 25°C)	150V	300V	500V
	PV input voltage range	15-150V	80~300V	90~500V
	Charge & discharge current	60A	80A	150A
	Max PV input power	800W	3600W	6000W
Solar panel	Solar panel standard	1*590W/41V(1S1P)	5*590W/41V(5S1P)	9*590W/41V(9S2P)
Inbuilt battery	Capacity	1*12.8V/300AH	1*51.2V/160AH	1*51.2V/300AH
Transfer time		10ms(for personal computers);20ms(for home appliances)		
Environment	Operating temperature	0°C~55°C		
	Storage temperature	-15°C~60°C		
Net weight(kg) (with battery)		61	118	145
Dimention: L*W*H (mm)		520*259.4* 560	520*375.4*540	680*455*540

Solar Hybrid Inverter(EU)



Product features:

- ◆ Built-in MPPT controller.
- ◇ Continuous stable pure sine wave output
- ◆ Controlled by PC/Mobile with monitoring software



MODEL	BST-HPL-1500W	BST-HPL-3300W	BST-HPL-6500W	BST-HPL-12000W
Rated Power	1800VA/1500W	3600VA/3300W	7800VA/6500W	14500VA/12000W
INPUT				
Voltage	230VAC			
Selectable Voltage Range	170-280VAC			
Frequency Range	50Hz/60Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Surge power	3000W	6600W	13000W	24000W
Efficiency(Peak) PV to INV	98%			
Efficiency(Peak) BAT to INV	94%			
Transfer Time	10ms (for personal computers) 20ms (for home appliances)			
Wave form	Pure Sine Wave			
BATTERY & AC CHARGER				
Battery Voltage	12VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	13.5VDC	27VDC	54VDC	54VDC
Overcharge Protection	14.4VDC	28.8VDC	57.6VDC	57.6VDC
SOLAR CHARGER & AC CHARGER				
Solar Charger Type	MPPT			
MAX.PV Array Power	1500W	3300W	6500W	2*6000W
MPPT Range@Operating Voltage	30-500VDC	30-500VDC	60-500VDC	60-500VDC
Maximum PV Array Open Circuit Voltage	500VDC	500VDC	500VDC	500VDC
Maximum Solar Charging Current	100A	100A	120A	150A
Maximum AC Charging Current	60A	60A	100A	150A
Maximum Solar+AC Charging Current	100A	100A	120A	150A
PHYSICAL				
Dimension.D*W*H(mm)	399*285*118	399*285*118	495*312*125	600x360x158
Net Weight (kgs)	5.5kg	6kg	8.5kg	19.3kg
Communication Interface	RS232(Standard) GPRS/IFI(Optional)			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity(Non-condensing)			
Operating Temperature	0°C to 55°C			
Storage Temperature	-15°C to 60°C			

Solar Hybrid Inverter(EU)



»» Features

- Pure sine wave solar inverter
- Built-in MPPT solar charger
- WiFi Monitoring Function(optinal)
- Compatibe with lithium-ion battery
- High PV input voltage range
- Smart battery charge design to optimize battery life
- Solar energy is provided directly to the load first
- Can meet the rich custom needs of customers



MODEL	BST-HPG-6200W		BST-HPG-12000W-B
Rated Power	7500VA/6200W		14500VA/12000W
Number of Parallel	/		1~6 units
INPUT			
Voltage	230VAC		
Selectable Voltage Range	170-280VAC(for personal computers) 90-280VAC(for home appliances)		
Frequency Range	50Hz/60Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt.Mode)	230VAC±5%		
Surge power	12400W	24000W	
Efficiency(Peak) PV to INV	98%		
Efficiency(Peak) BAT to INV	94%		
Transfer Time	10ms (for personal computers) 20ms (for home appliances)		
Wave form	Pure Sine Wave		
BATTERY & AC CHARGER			
Battery Voltage	48VDC		
Floating Charge Voltage	54VDC		
Overcharge Protection	57.6VDC		
SOLAR CH & AC CHARGER			
Solar Charger Type	MPPT		
MAX.PV Array Power	6200W	2*6000W	
MPPT Range @ Operating Voltage	120-500VDC		
Maximum PV Array Open Circuit Voltage	500VDC		
MaximumSolar Charging Current	100A	150A	
MaximumAC ChargingCurrent	80A	150A	
MaximumSolar+AC ChargingCurrent	100A	150A	
PHYSICAL			
Dimension.D*W*H(mm)	428*280*110	540*350*120	
Net Weight (kgs)	8.2kg	19.5kg	
Communication Interface	RS485 /RS232(Standard) GPRS/WIFI(Optional)		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	0°C to 55°C		
Storage Temperature	-15°C to 60°C		

High-voltage Hybrid Inverter (EU)

Three Phase Hybrid Inverter



 Efficient
Higher Revenue

- 4 MPPT Trackers, 150% DC input oversized
- Max. PV input current 20A, compatible with high power PV modules
- Max.charge/discharge current 200A, 150% EPS peak output power

 Intelligent
Simple O&M

- IP66 protection
- DC&AC Typell SPD: prevent lightning damage
- Smart I-V curve diagnostic function: locate PV string faults accurately and automatically detect faults

 Flexible
Abundant Configuration

- Support optional AFCL function
- EPS switching under 10ms
- Support multi-inverters in parallel
- Standard generator interface, support for generator and smart load access

	BST-HPI-30KW-H3	BST-HPI-40KW-H3	BST-HPI-50KW-H3	BST-HPI-60KW-H3
Input (PV)				
Max. Input Power	48000Wp	64000Wp	80000Wp	96000Wp
Max. Input Voltage	1100V			
Start-up Voltage	200V			
Rated Voltage	620V			
MPPT Voltage Range	180V-1000V			
Number of MPPT Trackers	4			
Number of String per MPPT	8			
Max. Current per MPPT	4*40A			
Max. Short Circuit Current per MPPT	4*60A			
Output(on-Grid)				
Rated Output Power	30kW	40 kW	50 kW	60 kW
Max. Output Power	33kVA	44 kVA	55 kVA	66 kVA
Max. Output Current	50A	66.7 A	83.4 A	100 A
Max. Input Power from Grid	45kW	60 kW	75 kW	90 kW
Max. Input Current from Grid	68.4A	91 A	113.7A	136.4A
Rated Grid Voltage	3 / N / PE, 230 V / 400 Vac			
Rated Grid Frequency	50Hz / 60Hz			
THDI(@Rated Power)	<3%			
Power Factor	0.8 leading ~ 0.8 lagging			
Battery				
Battery Type	Lithium			
Battery Voltage Range	160V - 850V			
Max. Charge / Discharge Power	44kW		55kW	66kW
Max. Charge / Discharge Current	2*100A			
Communication	CAN / RS485			
Output (EPS)				
Rated Output Power	30kW	40kW	50kW	60kW
Peak Output Power,Time	1.5 times / 10s			
Max. Output Current	45.6A	60.7 A	75.8 A	91 A
Switch Time	<10ms			
Rated Voltage	3 / N / PE,230V / 400Vac			
Rated Frequency	50Hz / 60Hz			
Max. AC passthrough current	150A			
THDv (@linear load)	<2%			
Output (Generator)				
Max. Output Power	30kW	40kW	50kW	60kW
Max. Output Current	45.6A	60.7A	75.8A	91 A
Rated Voltage	3 / N / PE,230V / 400Vac			
Rated Frequency	50Hz / 60Hz			
Efficiency				
Max. Efficiency	98.40%			
European Efficiency	97.50%			
Battery Charge/Discharge Efficiency	97.50%			
Protection				
Protection	DC Switch, DC Reverse Polarity Protection, Anti-islanding Protection, AC Short Circuit Protection, Residual Current Monitoring, Ground Fault Monitoring, Over Current /Voltage Protection, Battery Active Function, I-V Curve Scan			
Surge Protection	Type II			
AFCL Protection	Optional			
General Data				
Display	LCD / LED			
Weight	92kg			
Dimension(W x H x D)	620 x 900 x 300 mm			
Operating Temperature Range	-30 ~ +60°C			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max, Operating Altitude	4000m			
Relative Humidity	0~95%			
Self-consumption	<15W			
Topology	Transformerless			

Three Phase Hybrid Inverter (EU)

BST-80K-SG02HP3-EU-GM8
BST-100/125K-SG02HP3-EU-GM10



Efficient

- High voltage battery, higher efficiency



Flexible

- AC couple to retrofit existing solar system



Intelligent

- 6 time periods for battery charging/discharging



Reliable

- Max. charging/discharging current of 200A
- Support storing energy from diesel generator

Model	BST-80K-SG02HP3-EU-GM8		BST-100K-SG02HP3-EU-GM8	BST-125K-SG02HP3-EU-GM8
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-1000			
Max. Charging/Discharging Current (A)	80+80	100+100		
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	2			
PV String Input Data				
Max. PV access power (W)	160000	200000	250000	
Max. PV Input Power (W)	128000	160000	200000	
Max. PV Input Voltage (V)	1000			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-850			
Rated PV Input Voltage (V)	650			
Max. Operating PV Input Current (A)	36+36+36+36+36+36	42+42+42+42+42+42+42+42+42	42+42+42+42+42+42+42+42+42	
Max. Input Short-Circuit Current (A)	54+54+54+54+54+54	63+63+63+63+63+63+63+63+63	63+63+63+63+63+63+63+63+63	
No. of MPP Trackers/ No. of Strings MPP Tracker	6/2+2+2+2+2+2	10/2+2+2+2+2+2+2+2+2	10/2+2+2+2+2+2+2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	80000	100000	125000	
Max. AC Input/Output Apparent Power (VA)	88000	110000	135000	
Rated AC Input/Output Current (A)	121.3/115.9	151.6/145.0	189.4/181.2	
Max. AC Input/Output Current (A)	133.4/127.6	166.7/159.5	204.6/195.7	
Max. Continuous AC Passthrough (grid to load) (A)	200	250		
Peak Power (off-grid) (W)	1.5 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	98.70%			
Euro Efficiency	98.10%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD+LED			
Communication Interface	RS485,RS232,CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			
Noise (dB)	≤65			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	606×927×314	734×1091×344 (Excluding Connectors and Brackets)		
Weight (kg)	105	161.7		
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549 , NRS 097,RD 140,UNE 217002, OVE-Richtlinie R25,G99,VDE-AR-N 4105			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Split Phase Solar Inverter(US)



Product Features:

- ◆ Built-in MPPT controller.
- ◇ Stable and continuous pure sine wave output.
- ◆ PC/Mobile-controlled with monitoring software.



MODEL	BST-HPG-3600W-U	BST-HPG-7200W-S	BST-HPG-12000W-S
Rated Power	4300VA/3600W	8600VA/7200W	14500VA/12000W
INPUT			
Voltage	Single Phase:120VAC	Split Phase:120VAC/240V	
Selectable Voltage Range	90-140VAC(for personal computers) 90-140VAC(for home appliances)		
Frequency Range	50Hz/60Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt.Mode)	L/N:120VAC±5%	L1/L2/N:120/240VAC±5%	
Surge power	7200W	14400W	24000W
Efficiency(Peak) PV to INV	98%		
Efficiency(Peak) BAT to INV	94%		
Transfer Time	10ms (for personal computers) 20ms (for home appliances)		
Wave form	Pure Sine Wave		
BATTERY & AC CHARGER			
Battery Voltage	48VDC	48VDC	48VDC
Floating Charge Voltage	54VDC	54VDC	54VDC
Overcharge Protection	57.6VDC	57.6VDC	57.6VDC
SOLAR CHARGER& ACCHARGER			
Solar Charger Type	MPPT		
MAX.PV Array Power	3600W	3600W*2	6000W*2
MPPT Range@Operating Voltage	80-300VDC	90-500VDC	90-500VDC
Maximum PV Array Open Circuit Voltage	300VDC	500VDC	500VDC
Maximum Solar Charging Current	80A	150A	250A
Maximum AC ChargingCurrent	40A	120A	160A
Maximum Solar+AC Charging Current	80A	150A	250A
PHYSICAL			
Dimension.D*W*H(mm)	415*280*100	580*359*127	620x450x132
Net Weight (kgs)	7.8kg	15kg	23.8kg
Communication Interface	RS485/RS232(Standard) GPRS/WIFI(Optional)		
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	0°C to55°C		
Storage Temperature	-15°C to 60°C		

High-Voltage Hybrid Inverter (US)

Three-Phase Hybrid Inverter



- Native Compatibility with US Grids**

 - 120/208V & 277/480V for all commercial needs
 - Supports mixed single and three-phase loads
 - Simplifies wiring and lower cost
- Seamless On/Off-Grid Operation**

 - Smooth grid/off-grid switching
 - Operates reliably with or without batteries
 - Grid & generator inputs, 2x bypass current
- Dual Battery Ports, 200A Total Output**

 - 2 high-voltage battery inputs, 100A per port
 - Up to 200A total charge/discharge current
 - Flexible with high-capacity battery systems
- Exceptional Energy Conversion**

 - 100% unbalanced three-phase output
 - 4 MPPTs with up to 99.9% efficiency
 - 1.67x PV oversizing for higher energy yield
- Durable & All-Weather Ready**

 - Advanced SiC for peak efficiency
 - IP66-rated for harsh outdoor use
 - Compact, plug-and-play installation
- Scalable & Smart Energy Control**

 - Up to 8 in parallel for system expansion
 - AC-coupling for easy system upgrades
 - Built-in EMS and cloud monitoring & OTA

TECHNICAL SPECIFICATION		
Model	BST-HPC-30KW-H3U	BST-HPC-60KW-H3U
INVERTER INPUT / OUTPUT(GRID)		
Rated Power (Input/Output) (KW)	30/60	120/60
Rated Voltage	127/220Va.c.,3W+N+PE	460/480Va.c.,3W+N+PE
Rated Frequency (Hz)	50/60	
Power Factor Range	0.8 leading~0.8 lagging	
Switch Time (ms)	<20	
Max.Continuous Current (Input/Output) (A a.c.)	166.6/83.3	150.6/75.3E
Max.Output Overcurrent Protection (A a.c.)	124.9	108.3
BATTERYE		
Battery Type	Lithium / Lead-acid	
Battery Voltage Range (Vd.c.)	150~700	300-800
Rated Battery Voltage (V d.c.)	150	300
Max.Charge Current (A d.c.)	2*100	
Max.Discharge Current (A d.c.)	2*100	
Reverse Connect Protection	Yes	
PV INPUT		
No.of MPPT Tracker / Strings	4/2+2+2+2	
Max.PV Input Power (KW)	60	100
Max.DC Voltage (V d.c.)	1000	
MPPT Voltage Range (V d.c.)	150~850	
Start-up Voltage (V d.c.)	200	
Max.Input Current/sring(Ad.c.)	8*20	
Isc PV (Absolute Maximum)/sring (Ad.c.)	8*30	
AC OUTPUT(EPS) / GENERATOR		
EPS Rated Output Voltage	120/208Va.c.,3W+N+PE	460/480Va.c., 3W+N+PE
EPS Rated Output Frequency (Hz)	50/ 60	
EPS Rated Output Active Power (KW)	30	60
EPS Rated Output Apparent Power (KVA)	30	60
EPS Rated Output Current (A a.c.)	83.3	72.2
Overload Capacity (Off Grid)	110% 30s/120% 10s/ 150% 0.2s	
EFFICIENCY		
MPPT Efficiency	99.90%	
Euro-efficiency	97.00%	
Max.Efficiency	98.00%	
PROTECTION & FEATURE		
Insulation Monitoring	Yes	
Residual Current Monitoring	Yes	
Parallel Function	Yes,up to 6pcs	
Protection Degree	IP66	
Certifications	UL1741, FCC Part 15B, UL1547,UL1998,UL1699B,HECO SRD 2.0,CEC efficiency	
Other Protection	Ground fault current monitoring,Earth fault detection,Residual current(RCD)Detection etc.	
GENERAL PARAMETER		
Storage Temperature	-25°C~+60°C	
Operating Temperature	-25°C~+60°C(>+45°C Derating)	
Humidity	0%~95%(Non-condensing)	
Max.operating altitude (m)	4000(>2000 Derating)	
Noise (dB)	<65	
Machine Dimensions(W*H*D) (mm)	544*880*278	
Machine Weight/ N.W.(kg)	88	
DISPLAY & COMMUNICATION		
Display	App+ LED/ LCD(-S version)	
Interface	RS485 /WiFi / CAN/ DRM / Bluetooth (Optional:LAN/ Meter)	

- The AC voltage and frequency range can differ according to the grid standards of each country.
- Please note that all specifications are subject to change without prior notice.

Powerwall Energy Storage(PWBA Series)



Product features:

- ◆ Adopting brand-new Gotion battery Cell
- ◆ ≥ 6000 times@80%DOD
- ◆ Smart BMS Board-Safer, and more compatible
- ◆ Max 15 pcs batteries in parallel-"Unlimited"capacity expansion
- ◆ 10 years lifespan.

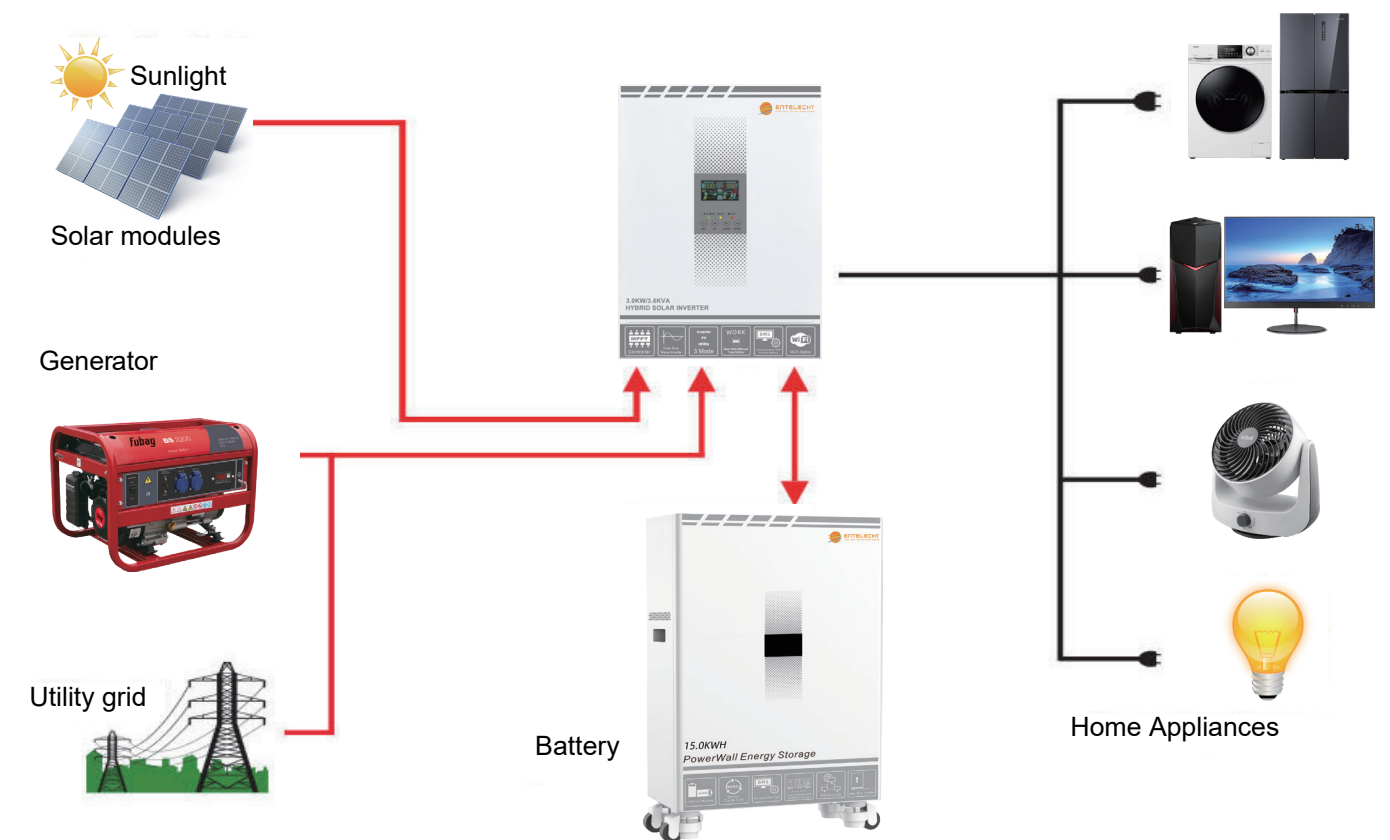
 Minimalist design
  Easy to install
  Various usage scenarios

 Stable output
  High safety performance

How Powerwall battery works in solar power system:

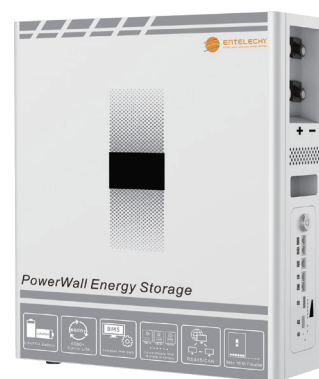
1. Connecting the solar panel to the combiner box;
2. Connecting the inverter with built-in controller;
3. Converting solar energy into DC to charge powerwall battery;
4. Then powerwall battery provides power to the inverter;
5. The inverter converts the DC into AC and finally uses it for the load.

Product connection diagram:

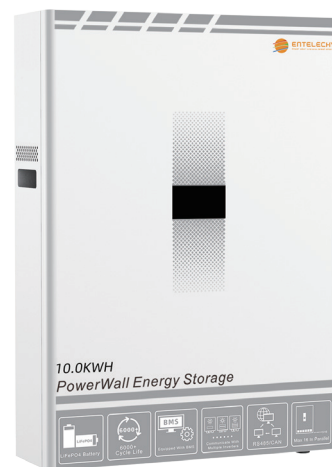


Communicate with inverters:



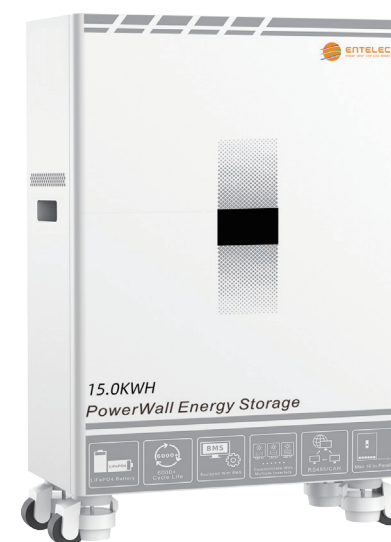


5KWh

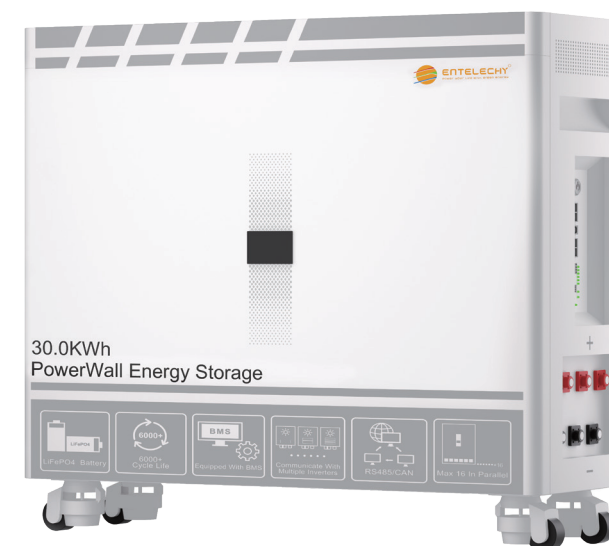


10KWh

Model	BST-PWBA24200	BST-PWBA48100	BST-PWBA48200
Cell Series Connection	8S	16S	16S
Rated Energy	5.12KWH	5.12KWH	10.25KWH
Rated Voltage	25.6V	51.2V	51.2V
Recommend Charge Cut-off Voltage	28.8V	57.6V	57.6V
Recommend Discharge Cut-off Voltage	24V	48V	48V
Maximum Charge& Discharge Current	200A@10S	100A@10S	200A@10S
Recommend Charge& Discharge Current	≤160A	≤80A	≤160A
Maximum Output Power	5000W@10S	5000W@10S	10000W@10S
Recommend Output Power	≤4000W	≤4000W	≤8000W
DOD	≥95%		
CycleLife	6000 Cycles@80%DOD,25°C		
Communication Method	RS485/CAN/RS232		
Operating Temperature	0-60°C		
IP	IP21		
Product Size(L*W*H)	455*160*520mm	455*160*520mm	535*210*730mm
N.W.(kg)	45.5KG	45.5KG	110KG
Packing Size(L*W*H)	590*515*310mm	590*515*310mm	615*250*880mm
G.W.	57KG	57KG	123KG



15KWh/17.5KWh



30.72KWh

Model	BST-PWBA48300	BST-PWBA48350	BET-PWBA48600
Cell Series Connection	16S	16S	16S
Rated Energy	15.36KWH	17.92KWH	30.72KWH
Rated Voltage	51.2V	51.2V	51.2V
Recommend Charge Cut-off Voltage	57.6V	57.6V	57.6V
Recommend Discharge Cut-off Voltage	48V	48V	48V
Maximum Charge & Discharge Current	200A@10S	200A@10S	200A@10S
Recommend Charge& Discharge Current	≤160A	≤160A	≤160A
Maximum Output Power	10000W@10S	10000W@10S	10000W@10S
Recommend Output Power	≤8000W	≤8000W	≤8000W
DOD	≥95%		
CycleLife	6000 Cycles@80%DOD,25°C		
Communication Method	RS485/CAN/RS232		
Operating Temperature	0-60°C		
IP	IP21		
Product Size(L*W*H)	535*260*780mm	535*260*780mm	900*320*780mm
N.W.(kg)	114KG	116KG	219KG
Packing Size(L*W*H)	590*300*925mm	590*300*925mm	953*818*489mm
G.W.	130KG	132KG	241KG

Powerwall Energy Storage(PWBH Series)



Product features:

- ◆ Adopting brand-new Gotion battery Cell
- ◆ ≥ 6000times@80%DOD
- ◆ Smart BMS Board-Safer, and more compatible
- ◆ Support a maximum of 4 series and 4 parallel connection.
- ◆ Support Bluetooth functionality
- ◆ 10 years lifespan.

 Minimalist design

 Easy to install

 Various usage scenarios

 Stable output

 High safety performance



Product parameter

Model	BST-PWBH12300	BST-PWBH24100	BST-PWBH24200	BST-PWBH24300	BST-PWBH48160
Cell Series Connection	4S	8S	8S	8S	16S
Rated Energy	3.84KWh	2.56KWh	5.12KWh	7.68KWh	8.19KWh
Rated Voltage	12.8V	25.6V	25.6V	25.6V	51.2V
Recommend Charge Cut-off Voltage	14.4V	28.8V	28.8V	28.8V	58.4V
Recommend Discharge Cut-off Voltage	12V	24V	24V	24V	48V
Maximum Charge&Discharge Current	150A @10S	100A @10S	150A @10S	150A @10S	150A @10S
Recommend Charge&Discharge Current	≤120A	≤80A	≤120A	≤120A	≤120A
Maximum Output Power	1800W @10S	2400W @10S	3600W @10S	3600W @10S	7200W @10S
Recommend Output Power	≤1440W	≤1920W	≤2880W	≤2880W	≤5760W
DOD	≥95%				
Cycle Life	6000 times@80%DOD,25°C				
Communication Method	NG				
Operating Temperature	0-60°C				
IP	IP21				
Product Size (L*W*H)	360*280*240MM	340*330*175MM	360*350*240MM	430*360*240MM	480*254*520MM
N.W	28KG	23KG	36KG	51KG	78.5KG
Packing Size(L*W*H)	425*345*295MM	405*395*230MM	425*415*295MM	490*425*295MM	560*285*670MM
G.W	30KG	25KG	39KG	54KG	86.5KG

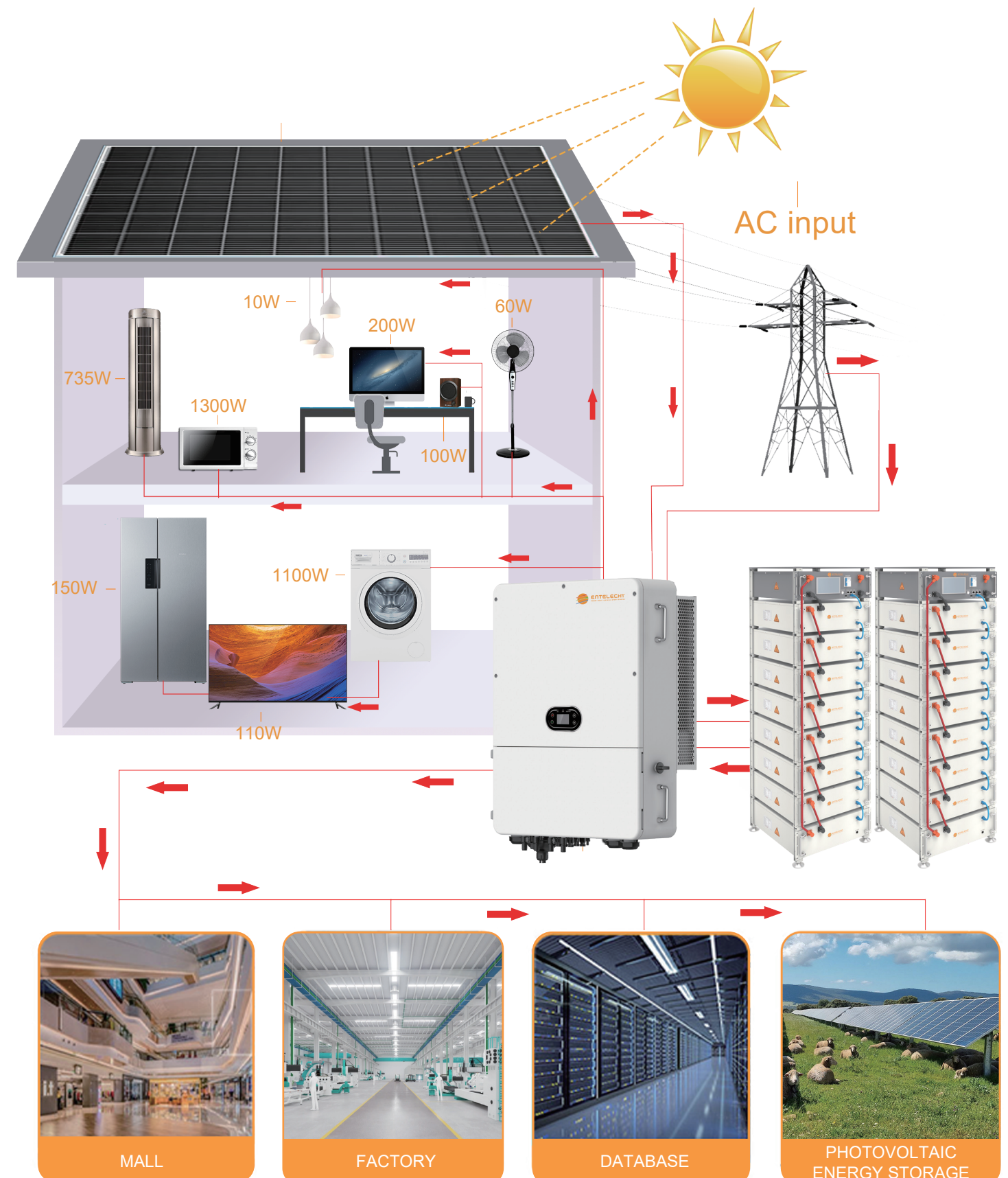
High Voltage Rack Battery



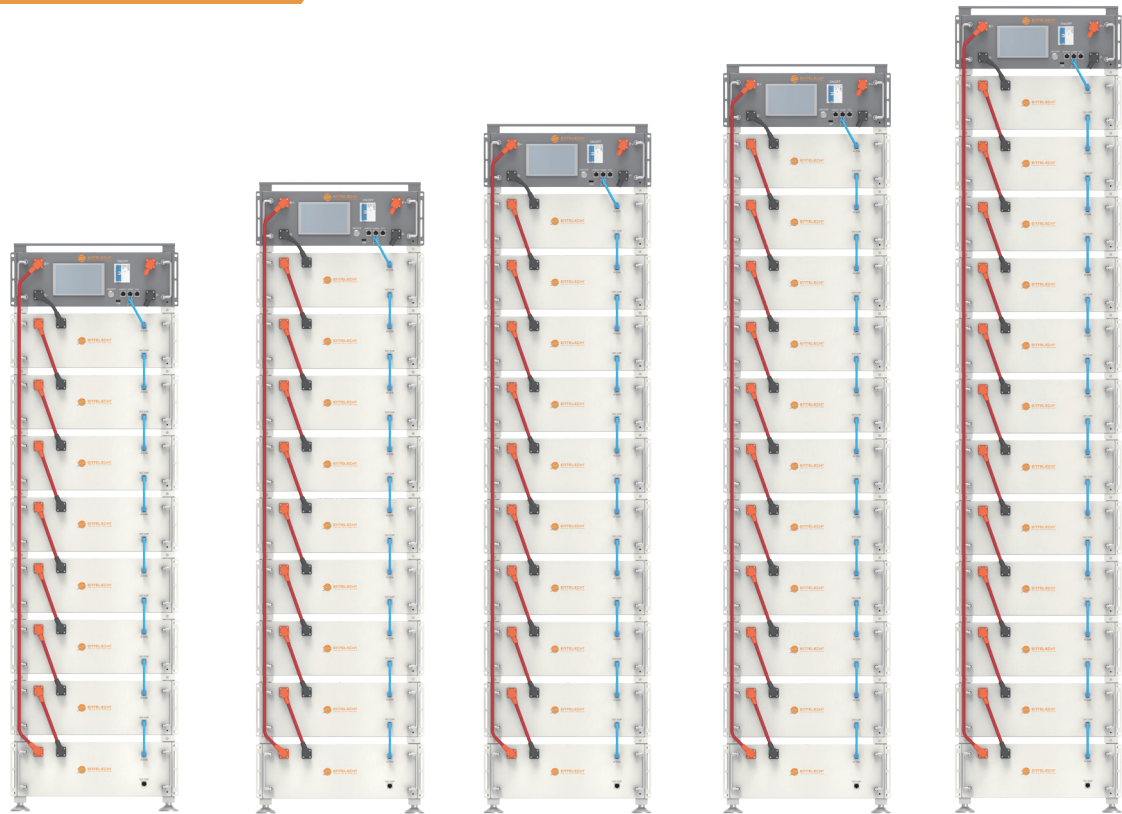
Product features:

- ◆ High-safety, long-life lithium iron phosphate batteries
- ◇ Efficient heat dissipation for improved reliability
- ◆ External weak-current switch reduces power consumption and enhances safety
- ◇ Rack battery supports cabinet installation or standalone use
- ◆ Stable output, compatible with various load types
- ◇ Standard support for 6 units in parallel, expandable up to 15
- ◆ Multiple protection design ensures overall power supply safety

25.6KWh-184.32KWh



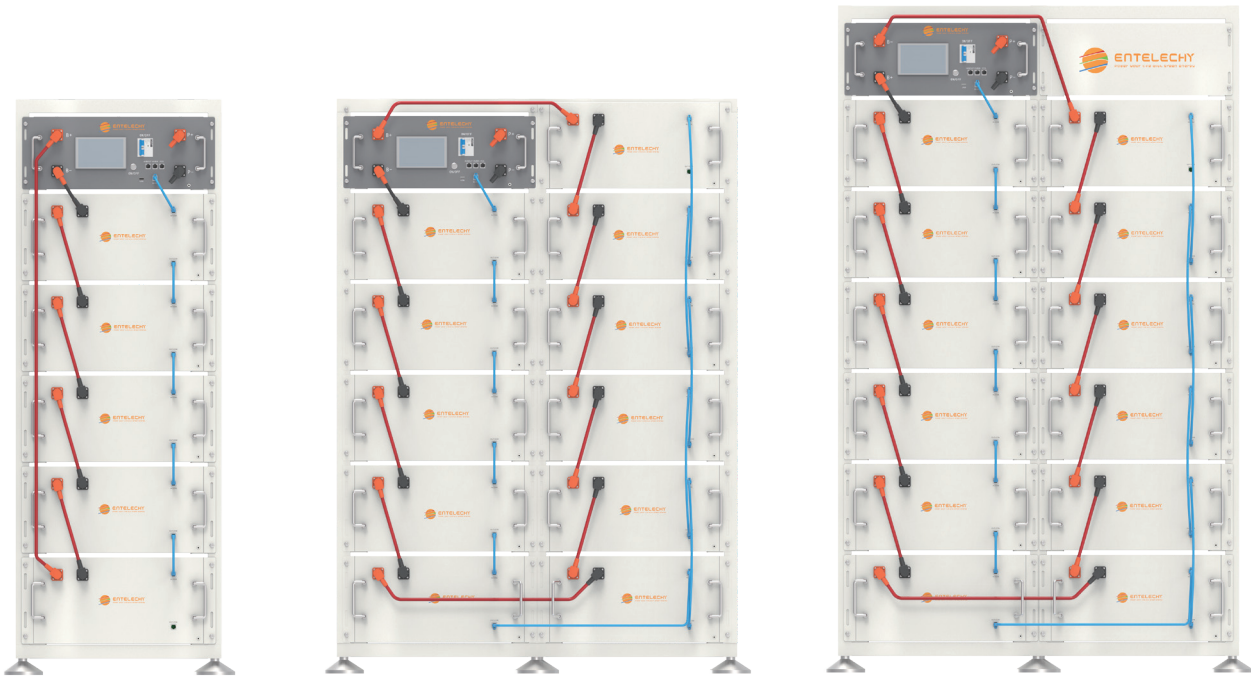
51.2V100AH



Product parameter

Model	BST-HVS240100	BST-HVS288100	BST-HVS336100	BST-HVS384100	BST-HVS432100	BST-HVS480100	BST-HVS528100	BST-HVS576100
Number Of Modules	5+1	6+1	7+1	8+1	9+1	10+1	11+1	12+1
Rated Energy	25.6KWh	30.72KWh	35.84KWh	40.96KWh	46.08KWh	51.2KWh	56.32KWh	61.44KWh
Nominal Voltage	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
battery capacity	100AH	100AH	100AH	100AH	100AH	100AH	100AH	100AH
MAX. Charge Voltage	288V	345.6V	403.2V	460.8V	518.4V	576V	633.6V	691.2V
MIN. Discharge Voltage	208V	249.6V	291.2V	332.8V	374.4V	416V	457.6V	499.2V
Recommend Discharge Cut-off Voltage	240V	288V	336V	384V	432V	480V	528V	576V
MAX.Charge Current	100A	100A	100A	100A	100A	100A	100A	100A
MAX.Discharge Current	100A	100A	100A	100A	100A	100A	100A	100A
Communication Method	RS485/CAN							
Cycle Life	6000times@80%DOD,25C							
Working Temperature Range	0-50℃							
Product Size(L*W*H) mm	494*447*1097	494*447*1264	494*447*1431	494*447*1598	494*447*1765	494*447*1932	494*447*2099	494*447*2266
N.W.(kg)	345	401	457	513	569	625	681	737

51.2V300AH



Product parameter

Model	BST-HVS240300	BST-HVS288300	BST-HVS336300	BST-HVS384300	BST-HVS432300	BST-HVS480300	BST-HVS528300	BST-HVS576300
Number Of Modules	5+1	6+1	7+1	8+1	9+1	10+1	11+1	12+1
RatedEnergy	76.8KWh	92.16KWh	107.52KWh	122.88KWh	138.24KWh	153.6KWh	168.96KWh	184.32KWh
Nominal Voltage	256V	307.2V	358.4V	409.6V	460.8V	512V	563.2V	614.4V
Battery Capacity	300AH	300AH	300AH	300AH	300AH	300AH	300AH	300AH
MAX. Charge Voltage	288V	345.6V	403.2V	460.8V	518.4V	576V	633.6V	691.2V
MIN. Discharge Voltage	208V	249.6V	291.2V	332.8V	374.4V	416V	457.6V	499.2V
Recommend Discharge Cut-off Voltage	240V	288V	336V	384V	432V	480V	528V	576V
MAX.Charge Current	200A	200A	200A	200A	200A	200A	200A	200A
MAX.Discharge Current	200A	200A	200A	200A	200A	200A	200A	200A
Communication Method	RS485/CAN							
Cycle Life	6000times @80%DOD,25C							
Working Temperature Range	0-50℃							
Product Size(L*W*H) mm	585*800*1630	585*800*1985	1170*800*1100	1170*800*1365	170*800*1365	1170*800*1630	1170*800*1630	1170*800*1895
N.W.(kg)	579	691	803	915	1027	1139	1251	1363

Outdoor High-Voltage Battery Cabinet



Features

- ◆ New Class A high-reliability lithium iron phosphate battery, green and environmentally friendly
- ◆ Intelligent integrated BMS, all-round protection strategy and fault detection
- ◆ Modular design, parallel expansion, flexible choice of voltage and capacity
- ◆ Large capacity, high charging and discharging efficiency, more than 8000 cycles
- ◆ Ingress protection IP54
- ◆ Multi-function design, ON/OFF switch control output
- ◆ LCD display, dynamic display of system operating status data



Product parameter

Model	BST-WB240314	BST-WB288314	BST-WB336314	BST-WB384314	BST-WB432314	BST-WB528314	BST-WB720314
Number Of Modules	5+1	6+1	7+1	8+1	9+1	11+1	15+1
RatedEnergy	80KWh	96.5KWh	112.5KWh	128.6KWh	144.7KWh	176.8KWh	241.2KWh
Nominal Voltage	256V	307.2V	358.4V	409.6V	460.8V	563.2V	768V
Battery Capacity	314AH	314AH	314AH	314AH	314AH	314AH	314AH
MAX. Charge Voltage	288V	345.6V	403.2V	460.8V	518.4V	633.6V	864V
MIN. Discharge Voltage	208V	249.6V	291.2V	332.8V	374.4V	457.6V	624V
Recommend Discharge Cut-off Voltage	240V	288V	336V	384V	432V	528V	720V
MAX.Charge Current	200A	200A	200A	200A	200A	200A	200A
MAX.Discharge Current	200A	200A	200A	200A	200A	200A	200A
Communication Method	RS485 / Ethernet						
Cycle Life	8000times@80%DOD,25°C						
Working Temperature Range	0-50°C						
Ingress protection	IP54						
Air conditioning power	3000W						
Lightning protection	DC TYPE						
Fire protection system	thermal aerosol						
Cloud platform	LD Cloud						

20/40-Foot Container BESS



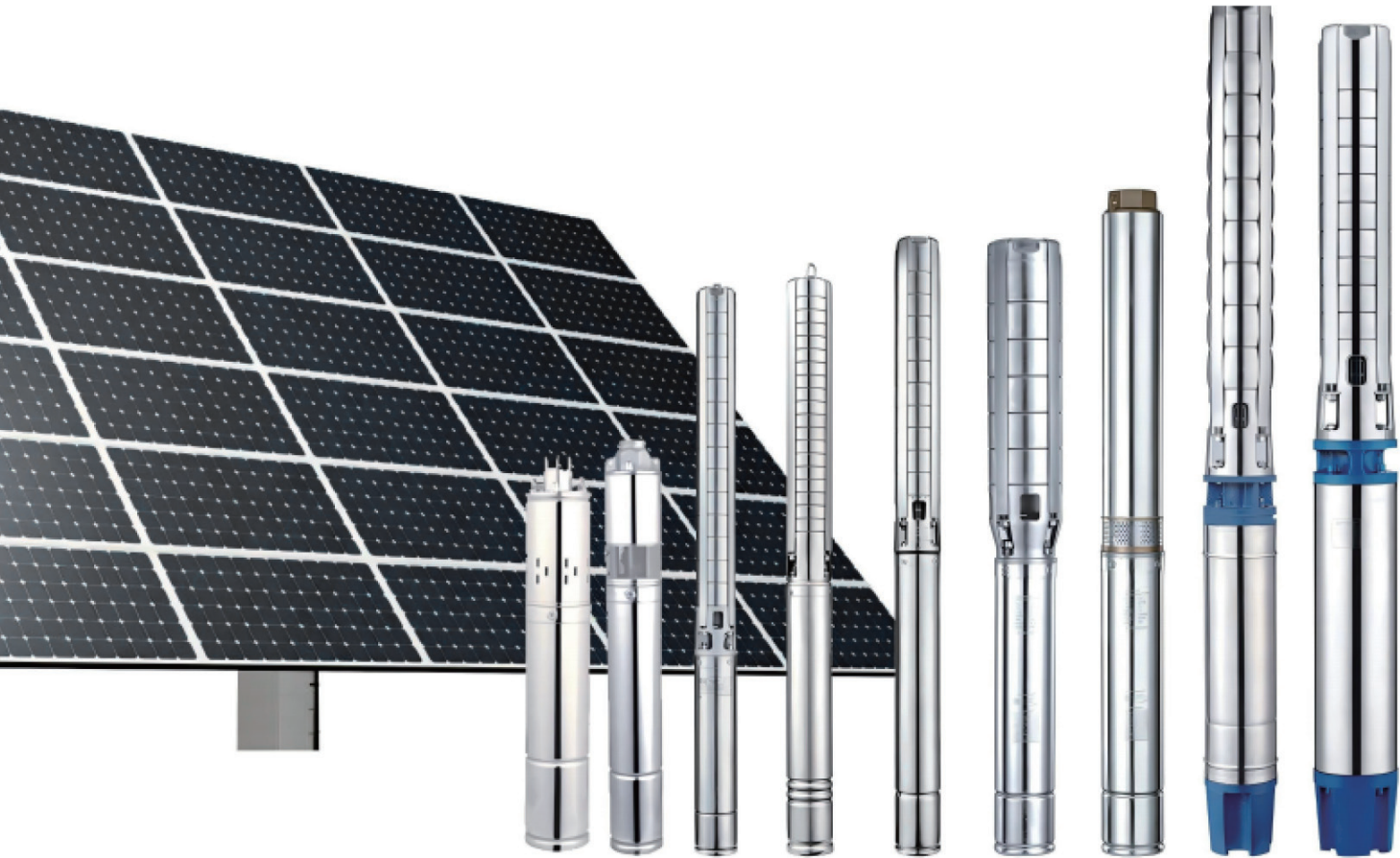
Features

- ◆ Safe and durable LFP battery energy storage
- ◇ Intelligent temperature control for higher efficiency
- ◆ Compatible with solar panels and diesel generators
- ◇ One-key start, automatic operation, parallel expansion supported
- ◆ IP55 outdoor protection
- ◇ Real-time data backup and remote monitoring
- ◆ Multi-layer safety protection with automatic fire suppression



Model	BST-BESS5001075	BST-BESS10002150
Grid side parameters		
Rated power	500KW	1000KW
Max.power	550KW	1100KW
Rated current	760A	1520A
Rated voltage	220V/380V,3W+PE/3W+N+PE	
Rated frequency	220V/380V,3W+PE/3W+N+PE	
THDI	<3%(Rated Power)	
power factor	-1 ahead ~ +1 behind	
Photovoltaic(PV) side parameters		
Max.PV input voltage	550V	
Max.PV input power	500KW	1000KW
MPPT quantity	10	20
Battery side parameters		
Battery Rated Capacity	215KWh*5	215KWh*10
Battery Rated Voltage	832V	832V
Battery Voltage Range	672~864V	672~864V
Battery pack series and parallel connection	16S*15S*5P	16S*15S*10P
Adaptive Battery	LFP	
Cell Capacity	305Ah	
Genera parameters		
Degree of protection	IP54	
Relative humidity	0~95%(no condensation)	
Noise	<78dB	
Ambient temperature	-25℃ to+60℃(derating above 45℃)	
Cooling mode	Intelligent air-cooled	
Altitude	3000m(>2000m reduction)	
Fire extinguishing system	Perfluorohexane/heptafluoropropane pipeline fire extinguishing system	
Communication interface	RS485/CAN	
Dimensions(W*D*H)	6148*2438*2896mm	12196*2438*2896mm
Weight(approx.)	17.5t	27.5t

Solar-powered water pump



Pump Power: 100W-50KW
Max Head: 500M
Max Flow Rate:60m³/h



Solar-powered water pump controller



- Technical Features:
- 1.MPPT DC Brushless Water Pump Controller

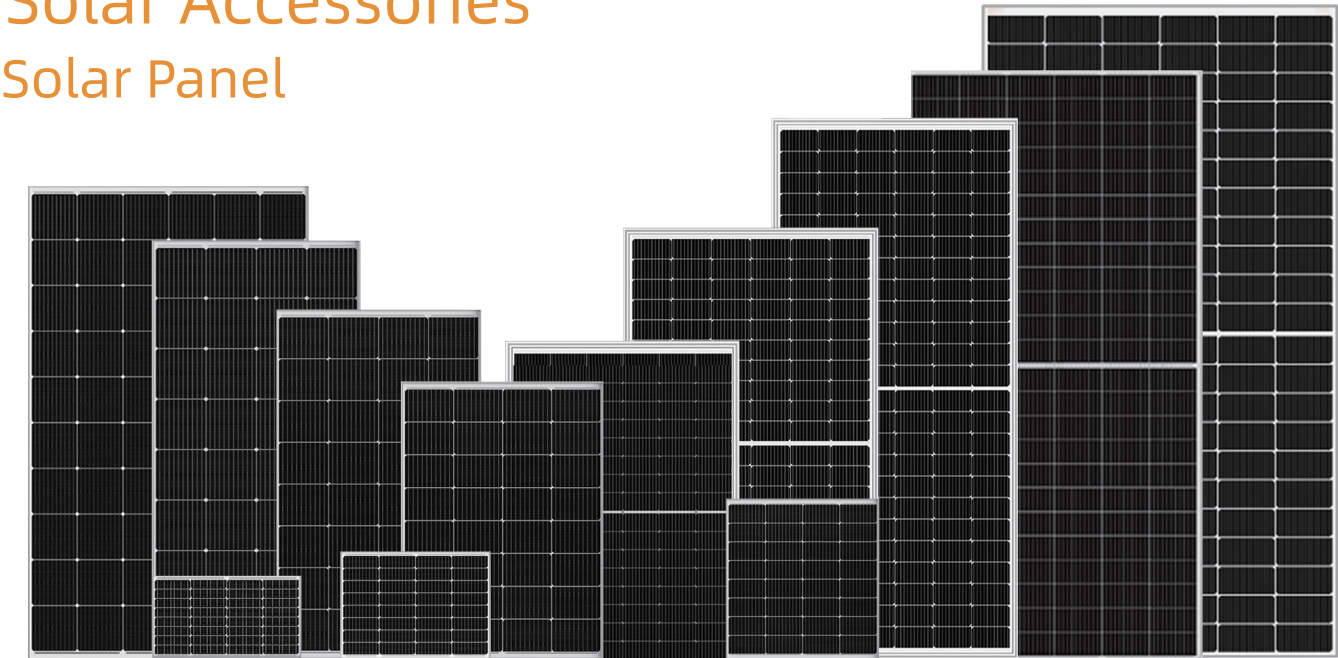
2.Dry-Running protection forwater well shortage

3Automatic shutdown when the water tank is full

4.Waterproof Grade:Ip67

Solar Accessories

Solar Panel



Model	Solar cell	PMAX	VMP (V)	IMP (A)	VOC (V)	ISC (A)	Panel size (mm)	Cell size (mm)	Array
BST-590W-144M	Mono	590W	42.27	13.52	50.20	14.24	2279*1134*30	182*91	6*72
BST-620W-132M	Mono	620W	41	15.12	49.60	15.91	2384*1134*30	182*105	6*66
BST-720W-132M	Mono	720W	40.9	17.36	49	18.4	2384*1303*33	210*105	6*66

Solar Panel Bracket/Cable



Bracket 1

Bracket 2

PV Combiner Box

Photovoltaic grid-connected cabinet

Breaker

MC4

PV Cable: 2.5~25mm²