



HOME ENERGY STORAGE SYSTEM



Low-voltage floor-standing home storage lithium battery

Introduction:

SWT Low Voltage Floor Standing Residential Energy Storage Li-Ion Battery with 51.2V, 10.2kW/14.3kW capacity batteries and Battery Management System (BMS) for residential energy storage system applications.



Long service life



Supports multiple parallel connections for capacity increase



5 year warranty



Supports multiple inverter communications



Model	ELESHELL 10.2K	ELESHELL 14.3K
Battery Capacity(wh)	10240Wh/200Ah	14336Wh/280Ah
Number of cells	1P8S*2	
Cell Type	LFP	
Nominal Voltage (V)	51.2	
Operating Voltage Range (V)	46.4*57.6	
Max.Charge /Discharge Current (A)	120	140
Continuous Charging/Discharging Current (A)	120	140
Max.Power (W)	6144	7168
Parallel Connection	≤ 16pcs	
Cycle Life	>6000 (80%dod,25℃)	>8000 (80%dod,25℃)
Structure		
Dimension(MM)	871.1*519*133	750*412*235
Weight(KG)	92	119
IP Rating	IP65	
Installation	Wall mounted/Floor mounting	Floor mounting
Working Environment		
Operating Temperature Range(℃)	0~50	
Storage Temperature	≤ 25℃ , 12 months; ≤ 35℃ , 6 months; ≤ 45℃ , 3 months	
Temperature. Control	natural cooling	
Relative Humidty	≤ 95%rh	
Humidity of storage environment	≤ 95%rh	
Communication	RS232/RS485/CAN	
Max. Operating Altude(m)	≤ 3000m	
Certification		
UN38.3,CE-EMC,IEC62619,MSDS,RHS		

High-Voltage All-In-One Stackable ESS

Introduction:

An efficient, safe, and intelligent home energy storage solution, featuring a convenient modular battery design and integrated inverter, EMS, and UPS management system.

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High Voltage
- 
High Capacity
- 
Scalable Design
- 
Integrated Design
- 
Efficient Performance
- 
Safe and Reliable
- 
Real-time Monitoring
- 
Intelligent BMS



Battery Module	SBS410V-GL3	SBS614V-GL3
Model	410V 52AH	614V 52AH
Energy(KWH)	21.3	31.95
Operating Voltage Range(V)	358.4~449.28	576-700
Life Cycle	6000 @80% DOD,25°C /0.5C	
Charge/Discharge Current(A)	50	50
Dimension(L*W*H)(MM)	653*301.5*1846	653*301.5*2364
Weight(KG)	320	440
AC		
Rate AC Output Power(KW)	12	
Grid Voltage/Range(V)	400/360~440	
AC Output Frequency(HZ)	50/60	
Grid Connection	3W+N+PE	
General Data		
Display	LCD	
Communication	CAN, RS485, WIFI	
Operating Temperature	-10°C ~55°C	
IP Rating	IP65	
Cooling	Natural Convection	
Certification	IEC62477, IEC62109;UN38.3, MSDS	

Single Phase Energy Storage System

Introduction:

SWT Indoor cabinet ESS compatible with hybrid inverter 5KW, most 19-inch-rack-mounted 48V battery and battery management system(BMS) for residential energy storage system application .

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Solar House
- 
Base Station
- 
Solar Plus Storage
- 
Farm
- 
Residential Rooftop
- 
Emergency power supply



Model	SM1P3KE	SM1P3.6KE	SM1P4KE	SM1P4.6KE	SM1P5KE	SM1P6KE
Input (PV)						
Max. Power(KW)	4.6KW	4.6KW	6KW	6KW	7KW	7KW
Max. DC Voltage(V)	550V					
MPPT Voltage Range(V)	125~550V					
Max. Input Current Of Single MPPT(A)	14A					
MPPT Tracker/Strings	2/1					
AC Output						
Rated Output Power(KVA)	3KVA	3.6KVA	4KVA	4.6KVA	5KVA	6KVA
Max. Output Current(A)	13A	16A	17.4A	20A	21.7A	26A
Grid Voltage/Range(V)	230/176-270V					
Grid Frequency(HZ)	50/60					
PF	0.8lagging-0.8leading					
THDI	< 3%					
AC Output Topology	L+N+PE					
EPS Output						
Rated Power (KVA)	3KVA	3.6KVA	4KVA	4.6KVA	5KVA	6KVA
Rated Output Current(A)	13A	16A	17.4A	20A	21.7A	26A
Rated Output Voltage(V)	230					
Rated Frequency (HZ)	< 20					
Automatic Switching Time (MS)	50/60					
THDU	2%					
Overload Capacity	110%,30S/120%,10S/150%,0.02S					
Battery Technical Parameters						
battery Module	Customization					
Battery Capacity(KWH)	2.4~14.4KWH					
MAX. Parallel Batteries	6					
Design Life Time	> 10years(25°C / 77F)					
Max. Charge/Discharge Current(A)	95/62.6A	95/75A	95/83.3A	95/95.8A	95/104.2A	95/110A
General data						
Protection Class	IP21					
MPPT Efficiency	99.90%					
Max. Efficiency	97.60%					
Self-Consumption	< 3W					
Interface:rs485WiFi/CAN/DRM	Yes/Opt/Opt/yes/yes					
Display	LCD					
Operating Temperature	-25°C ~+60°C					
Relative Humidity	15%~85%(non-condensing)					
Dimensions (W*D*H) MM	580/350/1800MM					
Weight(KG)	92					
Safety Standard	IEC/EN62109-1/-2,IEC/EN62477-1					
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-3					
On-Grid	South Africa NRS097-2-1:2017,UK G98,G99					

Single-phase Off-grid Energy Storage System

Introduction:

Flexible capability options from 3KW to 10KW
Excellent safety of cobalt free LiFePO4 battery
Strong load inverter output, capable of achieving dual input and dual output voltage of 110/220V
Exceptional lifespan, 2 years warranty
WiFi and Apps can be added as needed



Cost Effective



Intelligent BMS



Safe and Reliable



Easy Installation



Longer Lifetime



Modular Design

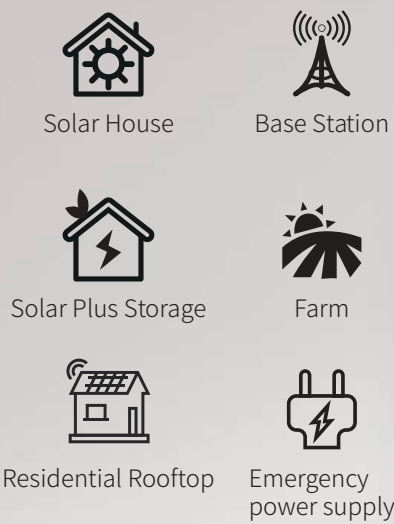


Model	SM1P3KF	SM1P5KF	SM1P8KF	SM1P10KF
Type	3000W/50AH	5000W/100AH	8000W/150AH	10000W/200AH
Nominal Voltage	51.2V			
Battery Module	50Ah/2.56KWH	100Ah/5.12KWH	150Ah/7.68KWH	200Ah/10.24KWH
Rated Power	3000W	5000W	8000W	10000W
Peak Power	6000W	10000W	16000W	20000W
Operating Voltage	47.2~56.8V			
Output Waveform	Pure Sine Wave			
Output Voltage	220VAC/230VAC±2%			
Output Frequency Range	50Hz/60Hz±10%			
Input Voltage Range	220VAC/230VAC			
AC Charging Current	10A~40A(Optional)			
Battery Type	Lithium Iron (LFP)			
Solar Controller	50A	100A	120A	120A
Solar Input (MAX)	2400W	4800W	5760W	5760W
Cooling	FAN cooling			
Efficiency (DC to AC)	85%			
Function				
Installation	Floor standing installation			
Output Port	4 * DC12V 10A output port, 2 * USB 5V 1A output port, 2 * AC 220V output port			
Alarm&Protection	Over Voltage, Under Voltage, Over Current, Over temperature, Short Circuit etc.			
Communication Port	RS232/CAN/RS485(Optional)			
Cell Safety Certification	CE,IEC62619,UL1973,CEC,UN38.3			

Three Phase Energy Storage System

Introduction:

SWT Indoor cabinet all-in-one ESS compatible with three phase 8KW/10KW/12KW hybrid solar inverter, BYD 50AH vehicle grade LiFePO4 battery and battery management system(BMS) for residential energy storage system application.



Model	SM3P8KE	SM3P10KE	SM3P12KE
DC Input			
Max. Power(KW)	12KW	15KW	18KW
Max. DC voltage(V)	1000V		
MPPT Voltage Range(V)	180V~850V		
Max. Input Current Of Single MPPT(A)	13A*2		
MPPT Tracker/Strings	2/1		
AC Output			
Rated Output Power(KVA)	8KVA	10KVA	12KVA
Max. Output Current(A)	12.7A	15.9A	19.1A
Grid Voltage/Range(V)	400V/360V~440V		
Frequency(HZ)	50/60HZ		
PF	1(0.8lagging-0.8leading)		
THDI	< 3%		
AC Output Topology	3W+N+PE		
EPS Output			
Rated Power (KVA)	8.8KVA	11KVA	13.2KVA
Rated Output Current(A)	12.7A	15.9A	19.1A
Rated Output Voltage(V)	400VAC		
Automatic Switching Time (MS)	< 20MS		
Rated Frequency (HZ)	50/60HZ		
THDU	2%		
Overload Capacity	110%,30S/120%,10S/150%,0.02S		
Battery Technical Parameters			
Battery Type	LiFePO4 battery (BYD original)		
Battery Voltage(V)	204.8V	307.2V	409.6V
Operating Voltage Range(V)	172.8V~224.64V	259.2V~336.96V	345.6~449.28V
Battery Module(AH)	50AH		
Battery Capacity(KWH)	10.24KWH	15.36KWH	20.48KWH
Module Number	4	6	8
Rated Charge/Discharge Current(A)	10~25A		
Max. Charge/Discharge Current(A)	50A		
Communication Interface	CAN/RS485		
Service Life	3500 times@80%DOD(25°C /77F)		
General Data			
Max. Efficiency	97.20%	97.50%	97.50%
MPPT Efficiency	99.50%		
Protection Class	IP20		
Noise Emission (Typical)	<60dB		
Operation Temperature	-10~~+60°C		
Cooling	forced air cooling		
Relative Humidity	15%~85%(non-condensing)		
Altitude	2000m(>2,000 Derating)		
Dimensions(W/D/H) MM	770*780*1160MM		
Weight(KG)	Customized		
Inverter Topology	transformerless		
Self-Consumption	<3W		
Display and communication			
Display	LCD		
InterfaceRS485/WiFi/LAN/CAN/DRM	yes /opt/opt/yes/yes		
Safety Standard	IEC/EN62109-1/-2,1EC/EN62477-1		
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-3		
On-Grid	Europe:EN50549-1, Germany:VDE4105/0124,UK:G99, South Africa:NRS097-2-1:2017		