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SOLAR INVERTER AND MORE 2026 Hybrid C&I Energy Storage System Datasheet

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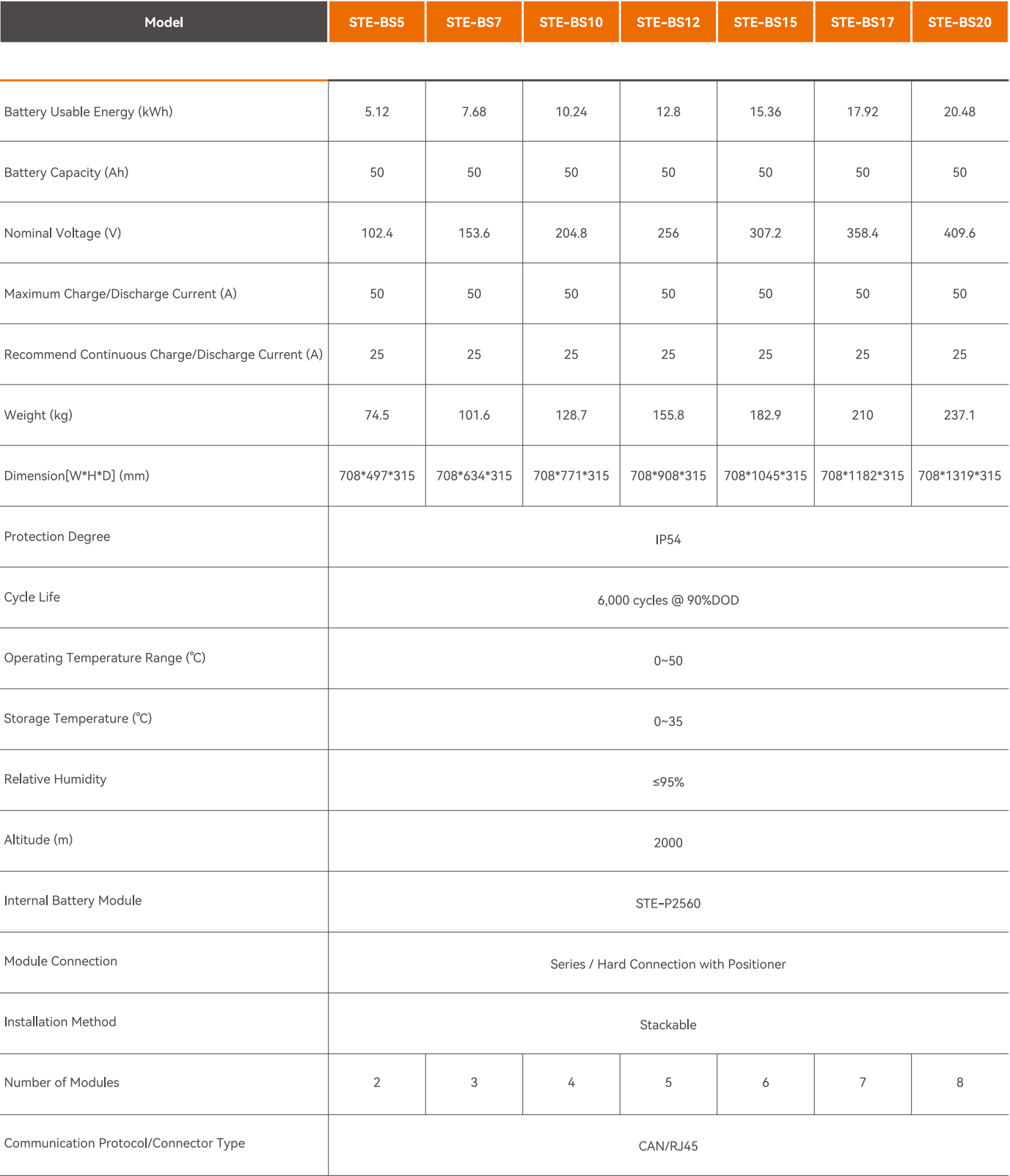
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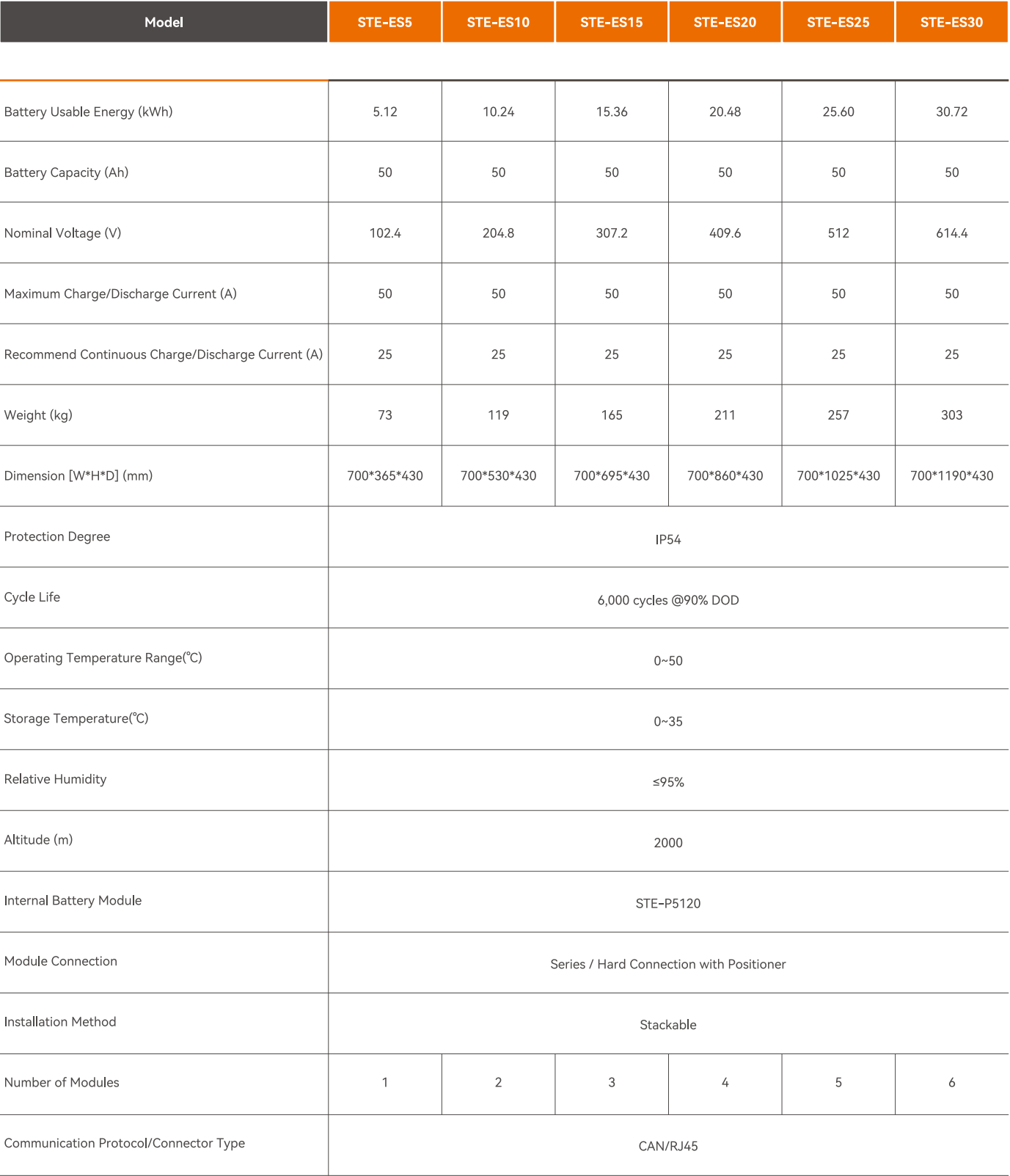
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- Standard operating temperature for batteries is 25°C
- STH 3~8KTL-HS series suitable battery range from STE-BS5-BS20
- STH 4~12KTL-HT series suitable battery range from STE-BS7-BS20
- STH 15~33KTL-HT series suitable battery range from STE-BS10-BS20



- Standard operating temperature for batteries is 25°C
- STH 3~8KTL-HS series suitable battery range from STE-ES5-ES20
- STH 4~12KTL-HT series suitable battery range from STE-ES10-ES30
- STH 15~33KTL-HT series suitable battery range from STE-ES10-ES30

BATTERY (HV)

STE-FS 10~60kWh

SUNWAYS STACKABLE LITHIUM BATTERY

BATTERY (HV)

STE-FS 10~60kWh

SUNWAYS STACKABLE LITHIUM BATTERY



Safer



Reliable



Flexible



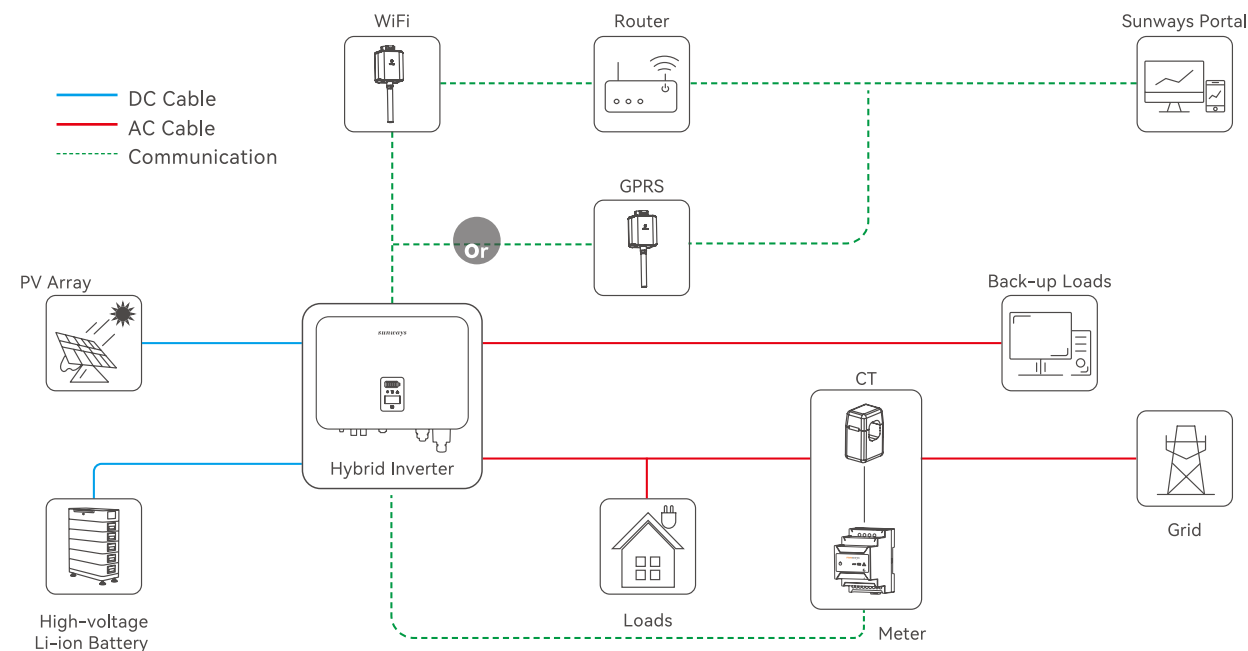
Convenient



Eco-Friendly

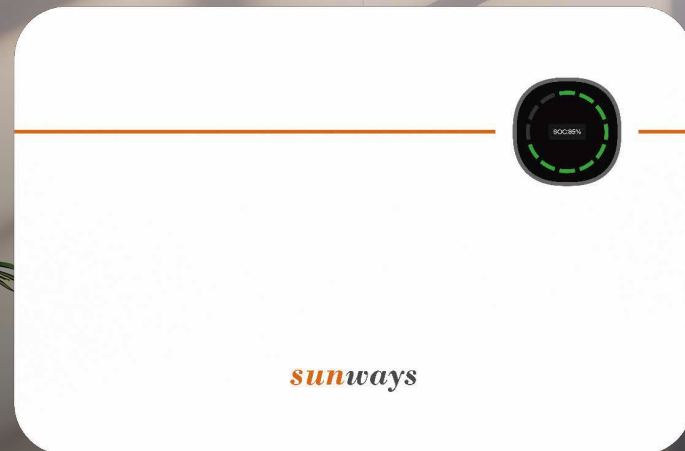


Floor-stand



Model	STE-FS10	STE-FS20	STE-FS30	STE-FS40	STE-FS50	STE-FS60
Battery Usable Energy (kWh)	10.24	20.48	30.72	40.96	51.2	61.44
Battery Capacity (Ah)	100	100	100	100	100	100
Nominal Voltage (V)	102.4	204.8	307.2	409.6	512	614.4
Maximum Charge/Discharge Current (A)	70	70	70	70	70	70
Recommend Continuous Charge/Discharge Current (A)	50	50	50	50	50	50
Weight (kg)	105	194	283	372	461	550
Dimension [W*D*H](mm)	720*420*455	720*420*750	720*420*1045	720*420*1340	720*420*1635	720*420*1930
Protection Degree	IP65					
Cycle Life	6,000 cycles @90% DOD					
Operating Temperature Range (°C)	0~50					
Storage Temperature (°C)	0~35					
Relative Humidity	≤95%					
Altitude (m)	2000					
Internal Battery Module	STE-P10240					
Module Connection	Series / Hard Connection with Positioner					
Installation Method	Stackable					
Number of Modules	1	2	3	4	5	6
Communication Protocol/Connector Type	CAN/RJ45					

- Standard operating temperature for batteries is 25°C
- STH 3~8KTL-HS series suitable battery range from STE-FS10-FS40
- STH 4~12KTL-HT series suitable battery range from STE-FS20-FS50
- STH 15~33KTL-HT series suitable battery range from STE-FS20-FS50



STE-MS 5/10kWh

WALL MOUNTED BATTERIES



Safety LiFePO₄
LFP Battery Chemistry



Easy Installation

Plug and Play



Wall Mounted
Upto 16 Units in Parallel



Stable & Reliable
Smart BMS



Long Battery Life
>6,000 Cycles Life (90% DOD)



Widely Compatible
Compatible with Mainstream Inverters

Model	STE-MS5	STE-MS10
Battery Type	51.2V 100Ah LiFePO4	51.2V 200Ah LiFePO4
Nominal Energy(kWh)	5.1	10.2
Usable Energy(kWh)	4.6	9.2
Peak Output Power (KW, 10Seconds)	7.7	10.2
Round-Trip Efficiency	97.5%	
Nominal Voltage(V)	51.2	
Operating Voltage(V)	44-58.4	
Max Charge/Discharge Current(A)	100	150
Recommended Charge/Discharge Current(A)	50	100
Communication	CAN,RS485	
Enclosure Protection Rating	IP21	
Operating Temperature (°C)	-20-60	
Cooling Type	Natural Cooling	
Installation	Wall Mounted, Indoor	
Cycles Life	>6,000(25°C)	
Recommend DOD	90%	
Dimension (W*H*D, mm)	650*430*155	780*540*155
Weight (kg)	48	88
Humidity	5%-95%	
Altitude(m)	<2,000	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Scalability	Max 16 Pcs in Parallel	

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STE SERIES



Support both WiFi and Bluetooth configurations for greater adaptability.



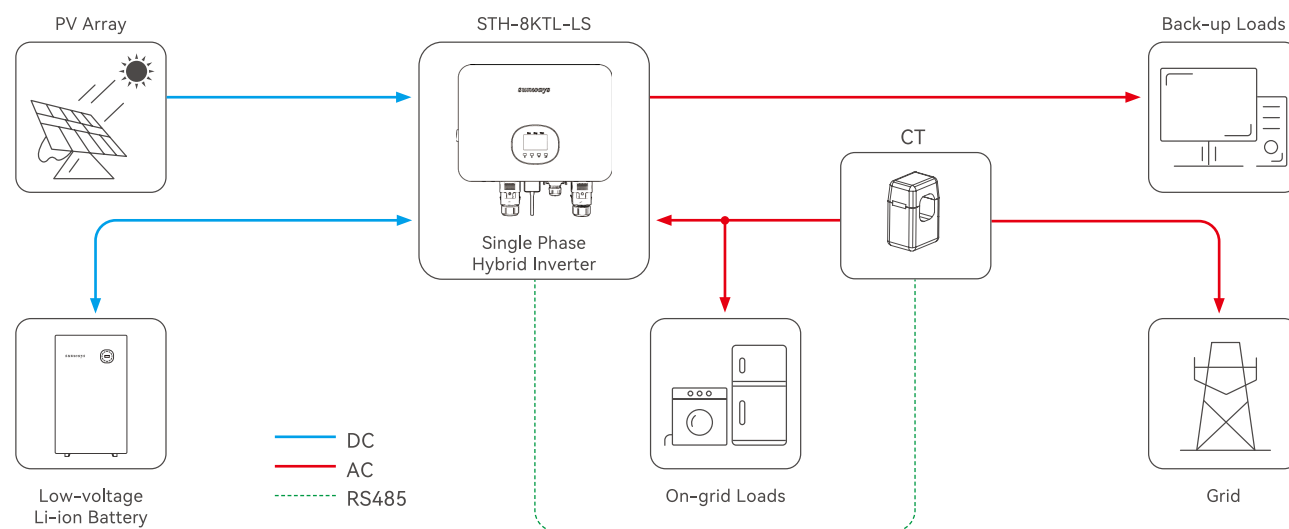
Long life >6000 cycles.



Plug and play format for easy installation.



The use of the most advanced lithium iron phosphate battery core technology.



Model	STE-NS16
Battery Type	51.2V 320 AH LiFePO4
Nominal Energy (kWh)	16.4
Usable Energy (kWh)	14.8
Peak Output Power(KW,10Seconds)	15.4
Round-Trip Efficiency	≥97.5%
Nominal Voltage(V)	51.2
Operating Voltage(V)	44-58.4
Max Charge / Discharge Current (A)	200/200
Communication	CAN,RS485
Enclosure Protection Rating	IP21
Operating Temperature(°C)	-20~60
Cooling Type	Natural Cooling
Installation	Free Stand,Indoor
Cycles Life	>6,000(25°C)
Recommend DOD	90%
Dimension (W*H*D,mm)	573*981*168
Weight(Kg)	130
Humidity	5%-95%
Altitude(m)	<2,000
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Safety Standard	UL1973/IEC62619/UN38.3



Safety and long lifespan,
high efficiency and high-power density



Remotely monitoring and upgrade,
support IOT function for
smarter and more efficient battery pack
operation and maintenance.



Battery module auto networking,
Automatic IP addressing, easy
maintenance Free stand design
and saving installation space



Intelligent BMS,
providing complete protection



Whole module non-toxic,
pollution-free



Support high discharge power,
module level Auto-balancing

Model	STE-OS5	STE-OS10	STE-OS15	STE-OS20
Total Energy [kWh]	5.12	10.24	15.36	20.48
Battery Module	51.2V 5.12kWh			
Number of Modules	1	2	3	4
Cell Type	LFP (LiFe PO4)			
Nominal Voltage [V]	51.2	51.2	51.2	51.2
Operating Voltage Range [V]	40-58.4	40-58.4	40-58.4	40-58.4
Max. Charge / Discharge Current [A]	100	120	120	120
Continue Discharge Output [kW]	5	6	6	6
Dimensions [W*D*H mm]	740*240*490	740*240*795	740*240*1100	740*240*1405
Approximate Weight [KG]	63.2	112.4	161.6	210.8

General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC:100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP65(Outdoor)
Operating Temperature	Charge: 0°C ~ 50°C/Discharge: -20°C ~ 50°C
Storage Temperature	0°C ~ 35°C
Humidity	≤95%
Altitude	≤2000m
Cycle Life	6000 cycles (90% DOD, 25°C)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Installation	Floor-mounted, Stack
Communication Port	CAN

[1] DC Usable Energy, test conditions: 90% DOD, 1C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

- Max. 4 parallel operating in a system
- IP65(Suitable for outdoor scenes)
- Remote diagnosis and real-time data monitoring
- Double protection

STE-QS 16~64kWh

LOW-VOLTAGE INTEGRATED LITHIUM BATTERY



Safety and long lifespan,
high efficiency and high-power density



Modular design,
easy to move around.
Suitable for multiple scenarios.



Support high discharge power,
inter-cell balancing.



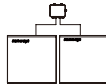
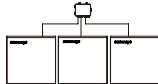
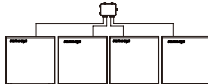
Whole module non-toxic,
pollution-free.



Support snapshot function for fault analysis and historical data records.



Remotely monitoring and upgrade,
support IOT function, DTC function.

Model	STE-QS16	STE-QS32	STE-QS48	STE-QS64
Schematic Drawing				
Total Energy [kWh]	16	32	48	64
Battery Module	51.2V 16kWh			
Number of Modules	1	2	3	4
Cell Type	LFP (LiFe PO4)			
Nominal Voltage [V]	51.2			
Operating Voltage Range [V]	40-58.4			
Max. Charge / Discharge Current [A]	300	350	350	350
Continue Discharge Output [kW]	15.36	17.92	17.92	17.92
Dimensions [W*D*H mm]	724*240*710			
Approximate Weight [KG]	121	242	363	484

General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC:100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP65
Operating Temperature	Charge: 0°C ~ 50°C / Discharge: -20°C ~ 50°C
Storage Temperature	0°C ~ 35°C
Humidity	≤95%
Altitude	≤4000m
Cycle Life	10 + years, ≥ 8000 cycles (70 % EOL, 80 % DOD,25 °C)
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Installation	Floor-mounted, Wall-mounted(Optional) Wall-mounted installation requires professional evaluation of wall load-bearing capacity.
Equipment Form	Casters (Optional)
Communication Port	CAN
Fire extinguishing	Aerosol (Optional)

*For parallel operation requirements, it can be used with Sunways Combiner Box.

****Research and Development Version–Not Final Specifications.** The final interpretation rights belong to Sunways.



WIFI & Bluetooth
Smart BMS



Easy Installation
Plug and Play



Expandable
Max 63 Pcs in Parallel



Safety LiFePO₄
LFP Battery Chemistry



Whole module non-toxic,pollution-free



Support high discharge power,
module level Auto-balancing,
under-voltage automatic restart.

Model	STE-PS30	STE-PS32
Battery Type	51.2V 600Ah LiFePO4	51.2V 640Ah LiFePO4
Nominal Energy(kWh)	30.8	32.8
Usable Energy(kWh)	27.6	29.5
Peak Output Power(kW, 10Seconds)	15.4	
Round-Trip Efficiency	≥97.5%	
Nominal Voltage(V)	51.2V	
Operating Voltage(V)	44~58.4	
Max. Charge / Discharge Current(A)	200/200	
Communication	CAN,RS485	
Enclosure Protection Rating	IP21	
Operating Temperature(°C)	-20~60	
Cooling Type	Natrul Cooling	
Installation	Free Stand, Indoor	
Cycles Life	>6000(25°C)	
Design Life	20+ Years(25°C@77°F)	
Recommend DOD	90%	
Dimension(W*H*D,mm)	815*850*240	
Weight(kg)	218	244
Humidity	5%~85%	
Altitude(m)	<2000	
Warranty	5 Year Product Warranty, 10 Year Performance Warranty	
Safety Standard	UL1973/IEC62619/UN38.3	
Scalability	Max 63 Pcs in Parallel	

[1] DC Usable Energy, test conditions: 90% DOD, 1C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.



Safety
BMS & Breaker modular lever protection



Automatic Laser Welding
Good battery consistency, small internal
resistance, superior charging and
discharging performance



Fast Installation
Plug & Play battery interface/
Plug in modular design



Perfect Compatibility
Compatible to most
inverter brands on the market



Excellent Heat Dissipation
The module adopts self-opening heat dissipation partition



Long Life
10-15 years life design, more than
6000 cycles

Model	STE-GS 80.4~176.9kWh						
Battery Module							
Rated energy (KWh)	16.08						
Rated voltage (V)	51.2						
Rated capacity (Ah)	314						
Dimension (W*D*H, mm)	532*775*234(±5)						
Weight (kg)	113±3						
Battery Rack							
Nominal Voltage(V)	5modules +1 BCU	6modules +1 BCU	7modules +1 BCU	8modules +1 BCU	9modules +1 BCU	10modules +1 BCU	11modules +1 BCU
Rated voltage (V)	256	307.2	358.4	409.6	460.8	512	563.2
Voltage range (V)	224.0~284.0	268.8~340.8	313.6~397.6	358.4~454.4	403.2~511.2	448.0~568.0	492.8~624.8
System energy (KWh)	80.4	96.48	112.56	128.64	114.72	160.8	176.88
System usable energy (KWh)	72.36	86.83	101.30	115.78	130.25	144.72	159.19
Weight (kg)	642	770	900	1030	1150	1300	1420
Dimension (W*D*H,mm)	540*870*1620	540*870*1860	540*870*2100	1080*870*1380		1080*870*1620	
Charge/discharge current (A)	Recommend 157 Max 180						
Working temperature (℃)	Charge: 0~55 / Discharge: -20~55						
Humidity (%)	5%~85%RH						
Altitude (m)	≤ 3000						
Protection degree	IP20						
Installation location	Rack-Mounted						
Storage temperature (℃)	0~35						
Recommend depth of discharge	90%						
Cycle life	≥ 6000 (25±2℃ /0.5C/EOL70%)						
Certification	CE UN38.3						



6000 cycles lifespan.



Real-time remote monitoring.



Off-grid/On-grid System.



IP65 protection degree
Outdoor and Indoor Application.



Brand new A-grade lithium iron phosphate battery cell.



Built-in Secure Intelligent
EMS Management System.

Model	STE-GS80
Battery Type	51.2V 104Ah
Nominal Energy [kWh]	81.92
Cell Type	LFP 2P128S
Nominal Voltage [V]	409.6V
Operating Voltage [V]	358.4~467.2V
Dimensions [W*D*H] (mm)	1142*951*1952
Communication	RS485, CAN, WiFi, Bluetooth
Storage Temperature [°C]	-20~55
Humidity	<95% (RH) no condensation
Operating Temperature [°C]	Charging: 0°C~55°C Discharging: -20°C~55°C
Altitude [m]	≤2000m
Cooling Type	Smart Fan Cooling
Protection Degree	IP54
Cycle Life	>6000 cycles(25°C, 80%DOD)
Communication Port	CAN
Warranty	5 Years Product Warranty, 5 Years Performance Warranty