

SC60A30P-06W 61kWh/30kW

SC60A50P-06W 61kWh/50kW



A+ Grade Lithium
Iron Phosphate Cells



15-year Design Lifespan

Version:V1.2

Smart Air-Cooled Battery
All-in-One C&I BESS

Integrated Solar-Storage-Diesel Hybrid BESS
Seamless On-grid/Off-grid Switching



● Features and Advantages

Safety Technology

- A+ grade lithium iron phosphate
- The system is configured with a multi-level fuse protection
- Built-in aerosol fire extinguishing systems at the package and rack levels

More Reliable

- The system is rigorously designed and tested to operate stably under various conditions
- Equipped with protections against overcharge over-discharge, and over-temperature to prevent accidents

Easy to Install and Use

- Highly integrated for ease of transportation, installation and deployment
- Modular design with flexible system capacity configuration

Energy Management System

- Emergency power supply
- Peak shaving
- Demand mitigation
- Self-consumption
- Micro-grids
- Price arbitrage

System Technical Parameters

Model	SC60A30P-06W	SC60A50P-06W
Battery Data		
Nominal Energy	61kWh	
Nominal Voltage	614.4V	
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)	
Cycle Life	≥6000 cycles(@25°C, 0.5P/0.5P)	
Cell Specification	3.2V 100Ah	
Battery Pack Energy	5.12kWh	
String Configuration	1P192S	
Number of Racks	1	
Operating Voltage	537.6V - 700.8V	
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Max. Charging Power	1P	
Max. Discharging Power	1P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	30kW	50kW
Please Refer to the Inverter Section for More Details		
General		
Dimension(W x D x H)	965 x 1091 x 2260mm	
Weight	Approximately 1050 Kg	
IP Rating	IP54	
Cooling Method	Smart air cooling	
Operating Temperature	-20°C - +50°C	
Storage Temperature	-20°C - +45°C	
Relative Humidity	15% - 90%(Non-condensing)	
Operating Altitude	≤3000m	
Communication	LAN/CAN/RS485	
Compliance	IEC 62619, IEC/EN 61000, UN 38.3, MSDS	

* The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified, the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.

* The specifications are subject to change without prior notice.

Hybrid Inverter

Three Phase | High Voltage

30kW/50kW



● Inverter Features

- 4 Integrated MPPTs with string current capacity of up to 20A.
- Maximum charge/discharge current of up to 70A+70A on two independently controlled battery ports.
- Supports peak shaving control in both "self-use" and "generator" mode.
- Backup port supports 1.6 times overload for short durations.
- Generator connectivity with multiple input methods and automatic generator On/Of control.
- Allows parallel operation of up to 6 units for both on-grid and of-grid applications.
- Support to work as grid-tied inverter without battery connection during on-grid.
- Compatible with a wide voltage range to accommodate various batteries.

Inverter Technical Parameters Part 1

Model	S6-EH3P30K-H		S6-EH3P50K-H	
Input DC (PV side)				
Recommended max PV array size	60 kW		100 kW	
Max. usable PV input power	60 kW		96 kW	
Max. input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	180 V			
Mppt voltage range	150-850 V			
Max. input current	3*40 A		4*40 A	
Max. Short circuit current	3*60 A		4*60 A	
Mppt number/max. Input strings number	3/6		4/8	
Battery				
Battery type	Li-ion			
Battery voltage range	150-800 V			
Max. Charge / discharge power	33 kW		55 kW	
Max. Charge / discharge current	70 A*2(1)			
No. Of battery inputs	2			
Max. charge / discharge power of each input	33 kW		35 kW	
Communication	CAN/RS485			
Output AC (Grid side)				
Rated output power	30 kW		50 kW	
Max. apparent output power	30 kVA		50 kVA	
Rated grid voltage	3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V			
Rated grid frequency	50 Hz / 60 Hz			
Rated grid output current	45.6 A / 43.3 A		76A / 72.2 A	
Max. output current	45.6 A / 43.3 A		76 A / 72.2 A	
Power factor	>0.99 (0.8 leading - 0.8 lagging)			
THDI	< 3%			
Input AC (Grid side)				
Max. AC passthrough current	91.2 A / 86.6 A		152 A / 144.4 A	
Rated input voltage	3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V			
Rated input frequency	50 Hz / 60 Hz			
Input Generator				
Max. input power	30 kW		50 kW	
Rated input current	45.6 A / 43.3 A		76 A / 72.2 A	
Rated input voltage	3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V			

Inverter Technical Parameters Part 2

Model	S6-EH3P30K-H	S6-EH3P50K-H
Rated input frequency	50 Hz / 60 Hz	
Output AC (Back-up)		
Rated output power	30 kW	50 kW
Max. apparent output power	1.6 times of rated power, 2 s	
Back-up switch time	< 10 ms	
Rated output voltage	3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V	
Rated frequency	50 Hz / 60 Hz	
Rated output current	45.6 A / 43.3 A	76 A / 72.2 A
THDV (@linear load)	< 2%	
Efficiency		
Max. Efficiency	97.8%	
EU Efficiency	97.4%	
BAT charged by PV max. Efficiency	98.5%	
BAT charged/discharged to AC max. Efficiency	97.5%	
Protection		
Anti-islanding protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Integrated DC switch	Yes	
DC reverse-polarity protection	Yes	
Surge protection	DC Type II / AC Type II	
Integrated AFCI 2.0	Optional	
General Data		
Dimensions (W x H x D)	530 x 880 x 290 mm	
Weight	73 kg	
Topology	Transformerless	
Self-consumption (night)	<35 W	
Operating ambient temperature range	-25°C - +60°C	
Relative humidity	0-95%	
Ingress protection	IP66	
Cooling concept	Intelligent redundant fan-cooling	
Max. Operation altitude	4000 m	

Inverter Technical Parameters Part 3

Model

S6-EH3P30K-H

Grid connection standard G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1/EN 50549-10, VDE 0126/UTE C 15/VFR:2019, NTS 631/RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARCO DE 2022

Safety/emc standard

EC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011

Features

PV connection

MC4 Quick connection plug

Battery connection

Terminal connector

AC connection

Terminal Block

Display

7.0" LCD display & Bluetooth + APP

Communication

CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN

(1) Supporting parallel 140A input.

