YOUR SAFE ENERGY

LITHIUMVALLEY

SC261L60P-23W 261kWh/60kW

SC261L80P-23W 261kWh/80kW

A+ Grade Lithium Iron Phosphate Cells

15-year Design Lifespan

Version:V1.0

Liquid Cooled Battery
All-in-One C&I BESS

Integrated Solar-Storage-Diesel Hybrid ESS
Seamless 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

Easy to Install and Use

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

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

Energy Management System

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

System Technical Parameters

Model	SC261L60P-23W	SC261L80P-23W
Battery Data		
Nominal Energy	261kWh	
Nominal Voltage	832V	
Battery Model	SC52T05-314	
Battery Chemistry	Lithium lron Phosphate(LiFePO4)	
Cycle Life	≥8000 cycles(@25°C, 0.5P/0.5P)	
Cell Specification	3.2V 314Ah	
Battery Pack Energy	52.24kWh	
String Configuration	1P260S	
Number Of Strings	1	
Operating Voltage	728~949V	
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Max. PV Access Power	120000	160000
Max. PV Input Power	96000	128000
Rated Power	60 kW	80 kW
Please refer to the inverter section for more details.		
General		
Dimensions (W x D x H)	1300mm x 1450mm x 1890mm	
Weight	Approximately 2700 kg	
IP Rating	IP54	
Cooling Method	Liquid cooling	
Operating Ambient Temperature Rang	-25°C - +55°C	
Relative Humidity	15% - 90%(Non-condensing)	
Max. Operating Altitude	≤3000m	
Communication Interfaces	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

60/80kW

Features and Advantages

- 100 — 100%unbalanced output, each phase
- AC couple to retrofit existing solar system
- 10 — Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 160 — Max. charging/discharging current of 160A
- H — High voltage battery, higher efficiency
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Inverter Technical Parameters Part 1

Model	SUN-60K-SG02HP3-EU-EM6	SUN-80K-SG02HP3-EU-EM6
Battery Input Data		
Battery Type	Lithium-ion	
Battery Voltage Range (V)	160-1000	
Max.Charging Current (A)	80+80	
Max.Discharging Current (A)	80+80	
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
Number of Battery Input	2	
PV String Input Data		
Max.PV Access Power (W)	120000	160000
Max.PV Input Power (W)	96000	128000
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	
Max.Input Short-Circuit Current (A)	54+54+54+54+54+54	
No.of MPP Trackers/No.of Strings MPP Tracker	6/2+2+2+2+2+2	
AC Input/Output Data		
Rated AC Input/Output Active Power (W)	60000	80000
Max.AC Input/Output Apparent Power (VA)	66000	88000
Rated AC Input/Output Current (A)	91/87	121.3/115.9
Max.AC Input/Output Current (A)	100/95.7	133.4/127.6
Max.Continuous AC Pass through (grid to load)(A)	200	
Peak Power (off-grid)(W)	1.5 timesof rated power,10s	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range(V)	220/380V, 230/400V 0.85Un-1.1Un	
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Grid Connection Form	3L+N+PE	
Total Current Harmonic Distortion THDi	<3%(of nominal power)	
DC Injection Current	<0.5%In	
Efficiency		
Max.Efficiency	97.60%	
Euro Efficiency	97.0%	
MPPT Efficiency	>99%	

Inverter Technical Parameters Part 2

Model	SUN-60K-SG02HP3-EU-EM6	SUN-80K-SG02HP3-EU-EM6
Equipment Protection		
Integrated	DC Polarity Reverse Connection Protection,AC Output Over current Protection, Thermal Protection,AC Output Over voltage Protection, AC Output Short Circuit Protection,DC Component Monitoring, Over voltage Load Drop Protection,Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring,Island Protection Monitoring,Earth Fault Detection, DC Input Switch,DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection,Surge protection level	
Surge Protection Level	TYPEII(DC), TYPEII(AC)	
Interface		
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	IP65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC),OVC III(AC)	
Cabinet Size (WxHxD mm)	606×927×314 (Excluding Connectors and Brackets)	
Weight (kg)	97.5	
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,NRS097,RD 140,UNE217002, 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	