



D.I.T. ENERGY WORLDWIDE

Energy Storage Solution

INTELLIGENT ENERGY STORAGE LEADER

D.I.T.ENERGY WORLDWIDE LTD.

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DIT ENERGY WORLDWIDE LTD

Cutting-edge Technology

Guarantee of Quality

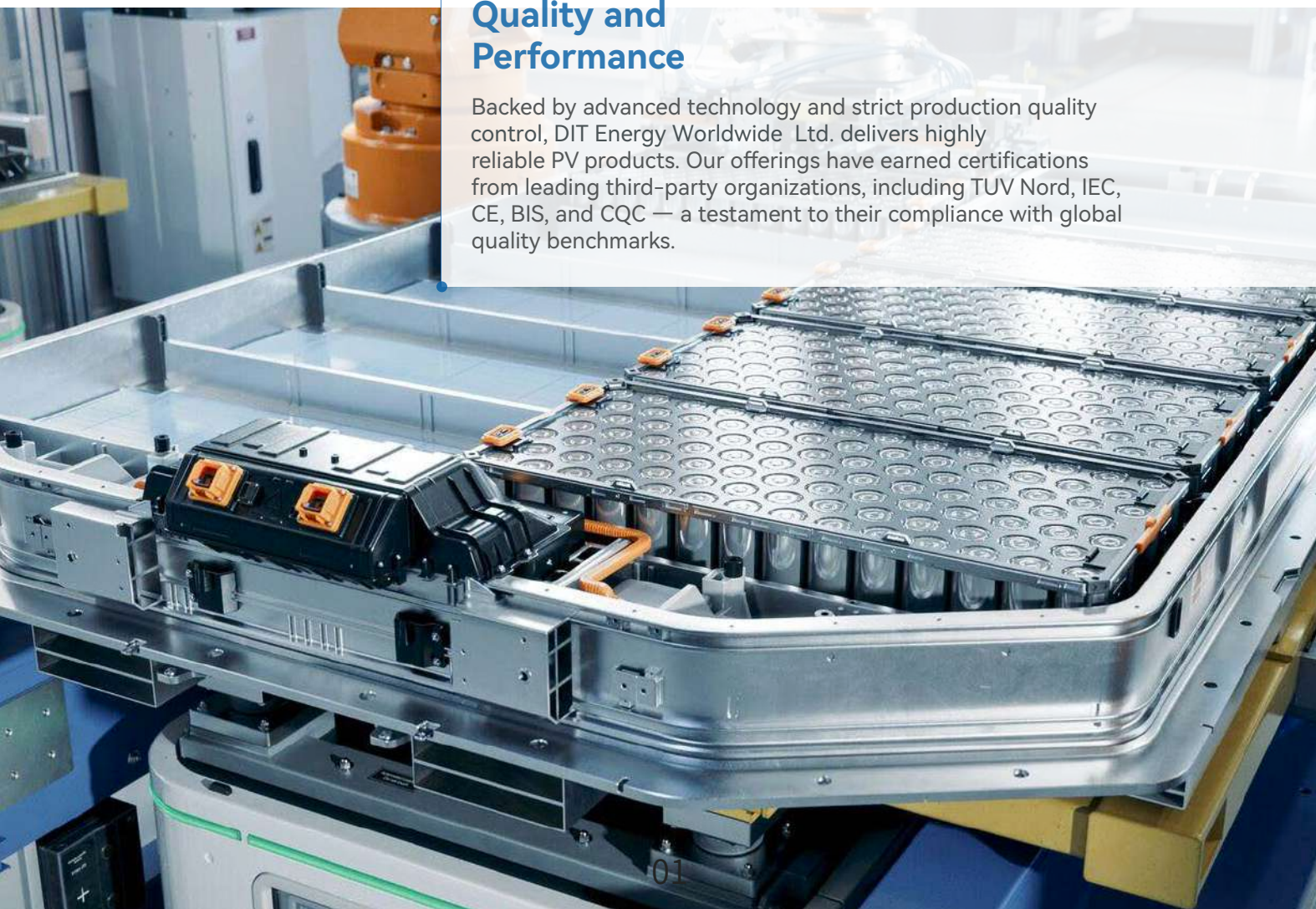
DIT Energy Worldwide Ltd builds its reputation as a trusted brand through leading manufacturing capabilities, innovative R&D, stringent quality management, and superior product performance. Every PV module undergoes rigorous quality control at every production stage, ensuring cost-effective and efficient photovoltaic solutions for customers.

Continuous R&D Innovation

The R&D team at DIT Energy Worldwide Ltd. constantly boosts cell efficiency via diverse technological approaches. The company also forges deep collaborations with renowned enterprises, fueling continuous breakthroughs in photovoltaic technology.

Excellent Product Quality and Performance

Backed by advanced technology and strict production quality control, DIT Energy Worldwide Ltd. delivers highly reliable PV products. Our offerings have earned certifications from leading third-party organizations, including TUV Nord, IEC, CE, BIS, and CQC — a testament to their compliance with global quality benchmarks.



CIES 50 Emergency Power Supply + Commercial & Industrial Energy Storage

CIES 50 Emergency Power Supply + Commercial & Industrial Energy Storage is suitable for precision machining, cold chain storage, data centers, semiconductor manufacturing, medical imaging, outdoor construction sites, and fast-charging stations. It enables a 0.005-second seamless automatic switching between grid-tied and off-grid modes. The system supports parallel operation of multiple units and features an IP54 protection rating, ensuring dust resistance and waterproofing. It can also integrate with time-of-use electricity pricing and renewable energy sources to reduce overall energy costs for businesses.



Model	CIES 50
System Information	
Rated AC Power	30kW
Rated Capacity	51.2kWh
Battery Information	
Battery Cell	LFP
Capacity	100Ah
Configuration	IP160S
Rated Voltage	512V
Voltage Range	448V~576V
Charge/Discharge Rate	0.5C
Depth of Discharge(DOD)	98%
PCS	
AC Power	30kW
Operation Mode	Supports Grid-tied & off-grid
Rated Grid/Island Voltage	400V/230V
Power Factor	-1~1
Rated Grid Frequency	50Hz
Connection Method	Three-phase Four-wire
Operating Environment	
Protection Level(IP Code)	P55
Noise Emission	75dB
Operating Temperature Range	30°C~55°C
Relative Humidity	0~95%
Maximum Operating Altitude	3000m
Physical Specifications	
(W*D*H) Dimensions (W*D*H)	1001*617.5*1654.5mm
Weight	534kg
Battery Compartment Cooling Method	Intelligent Forced Air Cooling
PCS Compartment Cooling Method	Intelligent Forced Air Cooling
Fire Suppression System	Aerosol + Water Fire Protection Interface Reserved
Communication Protocol	CAN/RS485
Certifications	UN38.3

C&I Energy Storage Solution

CIES 261

The solution of DIT Energy Worldwide Ltd. is based on the "Thing-Connection-Network" design concept. It integrates long-life battery cells, high-efficiency balanced BMS, high-performance multifunctional PCS, high-efficiency thermal management system, and active safety system into an energy block eBlock. It enables modular, efficient and safe design from hundred-kWh small energy storage units to GWh large-scale energy storage power stations, solving industry-wide challenges such as low system safety, high parallel loss rate, and short system life in traditional energy storage solutions.



**Worry-Free Safety**

- Battery module-level fire suppression
- Hierarchical safety isolation for cabinet
- Class A fire safety management
- 3S rapid integration

**Economical & Efficient**

- 100% ultra-deep discharge capability
- AC-DC conversion efficiency > 90%
- Flexible deployment with elastic capacity expansion

**Grid-Friendly**

- Copper grid support
- Supports secondary frequency regulation
- Efficient AGC/AVC scheduling
- Enhanced energy control capability

**Intelligent Operation & Maintenance**

- BCS full-coverage monitoring
- Modular design improves O&M efficiency
- Cloud-based analytics significantly reduce O&M costs

CIES 261

DC Battery Parameters		AC Side Parameters	
Cell Type	LFP3.2V 314Ah	Rated AC Power	125Kw
Operating Voltage Range	650~949V	Rated Grid Voltage	400V
Battery PACK Configuration	1P260S	Rated Frequency	50/60Hz
Rated Voltage	832V	Power Factor	0.99
Rated Current	157A	Maximum AC Current	198A
Rated Energy	261.248kWh		
Rated Power	125kW		

System Parameters	
Cooling Method	liquid-cooled
Operating Temperature	-35~+55℃
Storage Temperature	-40~+70℃
Relative Humidity	0~95%
Application Altitude	4000m, Derating required when >2000m
Noise	< 80dB
Anti-Corrosion Grade	C4
System Dimensions (LWH)	1200*1400*2490mm
Communication Interface	RS485/Ethernet/CAN
Protection Class	IP55
Weight	< 3000Kg

C&I Energy Storage Solution

CIES 215&241

The solution of DIT Energy Worldwide Ltd. is based on the "Thing-Connection-Network" design concept. It integrates long-life battery cells, high-efficiency balanced BMS, high-performance multifunctional PCS, high-efficiency thermal management system, and active safety system into an energy block eBlock. It enables modular, efficient and safe design from hundred-kWh small energy storage units to GWh large-scale energy storage power stations, solving industry-wide challenges such as low system safety, high parallel loss rate, and short system life in traditional energy storage solutions.



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CIES 241

DC Battery Parameters		AC Side Parameters	
Cell Type	LFP3.2V 314Ah	Rated AC Power	100Kw
Battery Voltage Range	648~876V	Rated AC Voltage	400V
Battery PACK Configuration	1P240S	Rated Frequency	50Hz
Rated Current	140A (0.5C)	Maximum AC Current	158A
System Energy Storage Capacity	241KWh		

System Parameters	
Cooling Method	Air Conditioning Fan Cooling
Operating Temperature	-20°C~55°C
Operating Humidity	5%~95%
Noise	≤75dB
System Round-Trip Efficiency	≥88%
Altitude	≤3000m
System Dimensions (LWH)	1490*1182*2190mm
Communication Method	Ethernet/RS485/CAN/Type-C
Anti-Corrosion Grade	C4
Protection Class	IP55
Weight	≈2700kg

CIES 215

DC Battery Parameters		AC Side Parameters	
Cell Type	LFP3.2V 280Ah	Rated AC Power	100Kw
Battery Voltage Range	600V~876V	Rated AC Voltage	400V
Battery PACK Configuration	1P240S	Rated Frequency	110kw
Rated Current	280Ah	Maximum AC Current	128.2A
System Energy Storage Capacity	≥5000 Cycles	Output Voltage Frequency	50Hz/60Hz
Rated Voltage	768V	Grid Voltage Range	340~440V
Charge/Discharge Power	100kW	Maximum Output Current	141.6A
		Maximum Efficiency	≥99%

System Parameters	
Number of Battery PACKs	10
Cooling Method	Air Cooling
Operating Temperature	-30~60°C
Storage Humidity	RH≤85%
Operating Environment Humidity	RH≤75%
Application Altitude	≤2000m
System Dimensions	1238(L)*1473(W)*2280(H)mm
Communication Interfaces	RS485/Ethernet/Bluetooth/WIFI/4G (Optional)
Fire Protection System	Perfluorohexanone
Protection Class	IP55
Weight	2.5t

C&I Energy Storage Solution

CIES 120

DIT Energy Worldwide Ltd is based on the "Thing-Connection-Network" design concept. It integrates long-life battery cells, high-efficiency balanced BMS, high-performance multifunctional PCS, high-efficiency thermal management system, and active safety system into an energy block eBlock. It enables modular, efficient and safe design from hundred-kWh small energy storage units to GWh large-scale energy storage power stations, solving industry-wide challenges such as low system safety, high parallel loss rate, and short system life in traditional energy storage solutions.



-  **Worry-Free Safety**

 - Battery module-level fire suppression
 - Hierarchical safety isolation for cabinet
 - Class A fire safety management
 - 3S rapid integration
-  **Economical & Efficient**

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 - AC-DC conversion efficiency > 90%
 - Flexible deployment with elastic capacity expansion
-  **Grid-Friendly**

 - Copper grid support
 - Supports secondary frequency regulation
 - Efficient AGC/AVC scheduling
 - Enhanced energy control capability
-  **Intelligent Operation & Maintenance**

 - BCS full-coverage monitoring
 - Modular design improves O&M efficiency
 - Cloud-based analytics significantly reduce O&M costs

CIES 120

DC Battery Parameters		AC Side Parameters	
Cell Type	LFP3.2V/314Ah	Rated AC Power	50kw
Cell Capacity	314Ah	Maximum Power	80kw(2s)
Rated Capacity of Battery Pack	217kWh	Rated Current	76/72.2A
Battery Voltage Range	300~438V	Maximum Current	121.6/115.2A
Recommended Operating Voltage Range	336~432V	Rated AC Voltage	220V/380V, 3/N/PE
Battery PACK Configuration	1P24S		
Number of Battery Packs	5		
Maximum Charge/Discharge Current	157A		
Rated Voltage	384V		
Rated Charge/Discharge Current	0.5C		

System Parameters	
Cooling Method	Intelligent Air Cooling
Operating Temperature	-25~+55℃
Depth of Discharge	90%DOD
Relative Humidity	5%~95%
Maximum Operating Altitude	4000m/Derating when altitude ≥2000m
Noise Level	≤75dB
Cycle Life	8000 Cycles
Human-Machine Interaction	LED, LCD, WLAN+APP
System Dimensions (LWH, mm)	1510L*1010W*1830H
Communication Interface	LAN/CAN/RS485
Fire Protection System	Aerosol Fire Extinguishing System, Reserved Interface for Water-Based Fire Fighting
Protection Class	IP55
Weight	≤1500kg

Integrated Energy Storage System

SPECIFICATION



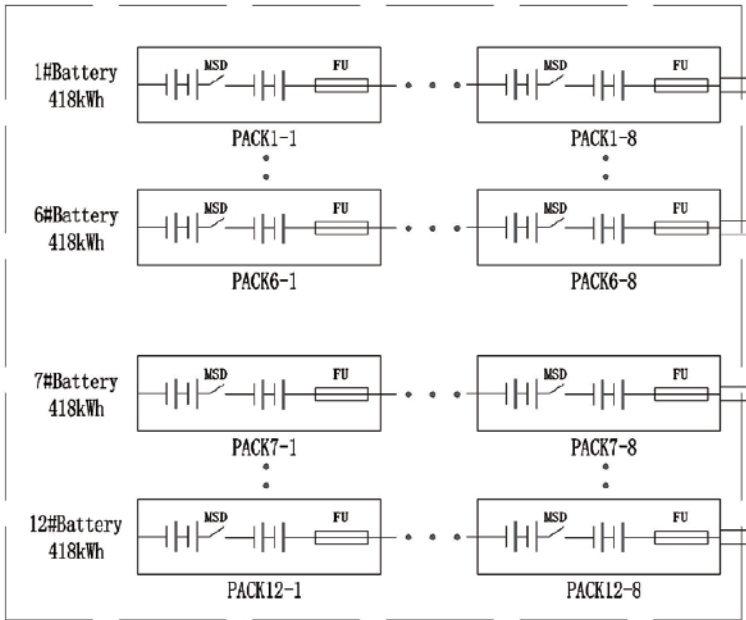
Model	Alice-20C-1000(2MWh)-A	
DC Side Parameters		
Operating Voltage Range	580~1000V	
Maximum DC Current	200A*8	
Compatible Batteries	Lithium-ion/Lead-acid/Photovoltaic modules	
Charging Method	Follows BMS commands/Three-stage/MPPT	
Operating Mode	Constant current,constant power,MPPT,AC voltage source,DC voltage source	
AC Side Parameters(Grid-Connected)		
Rated/Maximum AC Power	1000/1100kW	
Rated AC Current	180A*8	
Rated AC Voltage	400V,3W+PE	
Rated AC Frequency	50/60Hz ±5Hz	
Total Harmonic Distortion (THDi)	<3%(rated power)	
Power Factor	-1 leading to +1 lagging	
Battery Side Parameters		
Battery Rated Capacity	253.2kWh*8	
Battery Rated Voltage	806.4V	
Battery Voltage Range	705.6~907.2V	
Number of Battery String Groups	8P*18S*14S	
Compatible Batteries	LFP	
Cell Capacity	314Ah	
System parameter		
Protection Rating	IP54	
Operating Temperature	-25°C~60°C(derating above 45°C)	
Relative Humidity	0~95%(No condensation)	
Fire Suppression System	Perfluorohexane/Heptafluoropropane pipe-type fire suppression system	
Battery Compartment Cooling Method	Air conditioning and refrigeration	
Electrical Compartment Cooling Method	Intelligent air cooling	
Altitude	3000m(Derating above 2000m)	
Communication Interface	RS485/CAN	
Dimensions(W×D×H)mm	6058*2438*2591mm	
Weight(approx.)	28.5t	

Integrated Energy Storage System

SPECIFICATION



Model	Alice-20C-5MWh-L
Battery Side Parameters	
Battery Rated Capacity	418kWh × 12
Battery Rated Voltage	1331.1V
Battery Voltage Range	1164.8 ~ 1497.6V
Number of Battery Strings	12P × 52S × 8S
Compatible Batteries	LFP
Cell Capacity	314Ah
System parameter	
Protection Rating	IP54
Operating Temperature	-25°C~60°C(derating above45°C)
Relative Humidity	0 ~ 95%(No condensation)
Fire Extinguishing System	Perfluorohexane/Heptafluoropropane piped fire suppression system
Cooling Method	Liquid Cooling
Altitude	3000m(Deratingabove2000m)
Communication Interface	RS485/CAN
Dimensions (W×D×H)	6058 × 2438 × 2896mm
Weight (approx.)	42t



Alice-20C-5MWh-L

Integrated Energy Storage System

SPECIFICATION



Model	Alice-20C-2500 (5MWh)-L	
DCSideParameters		
OperatingVoltageRange	1000~1500V	
MaximumDCCurrent	206A*12	
NumberofDCInputs	12	
AC Low-Voltage Side Parameters		
Rated/Maximum AC Power	2500/2750kW	
Rated Grid Voltage	690V	
Rated AC Frequency	50/60Hz ±5Hz	
Total Harmonic Distortion (THDi)	< 3%(Ratedpower)	
Power Factor	-1leading to+1lagging	
AC High-Voltage Side Parameters		
Transformer Rated Power	2500kW	
Transformer Maximum Power	2750kW	
Voltage Ratio	22kV	
Transformer Type	Oil-immersedtransformer	
Electrical Parameters		
Battery Cluster Maximum Branch Current	206A×12	
Maximum Branch Current of the Converter	206A×12	
Number of DC Circuit Breakers	12	
Maximum Number of Battery Cluster Input Channels	12	
Maximum Number of Converter Input Channels	12	
Battery Parameters		
Rated Capacity of the Battery	418kWh×12	
Rated Voltage of the Battery	1331.2V	
Voltage Range of the Battery	1164.8~1497.6V	
Number of Battery String Groups	12P×52S×8S	
Compatible Batteries	LFP	
Cell Capacity	314Ah	
System parameter		
Protection Rating	IP54	
Relative Humidity	0~100%(No condensation)	
Ambient Temperature	-30°Cto60°C (Derating above45°C)	
Cooling Method	Liquid cooling	
Altitude	3000m (Derating above3000m)	
Communication Interface	RS485/CAN/Ethernet	
Dimensions (W×D×H) mm	Electrical container:6058×2438×2896mm; Battery container:6058×2438×2896mm	



DIT

Residential Use

IP 65

10-Year Warranty



Easy to install



A variety of intelligent working modes



Remote monitoring via APP or Web



Support BMS communication

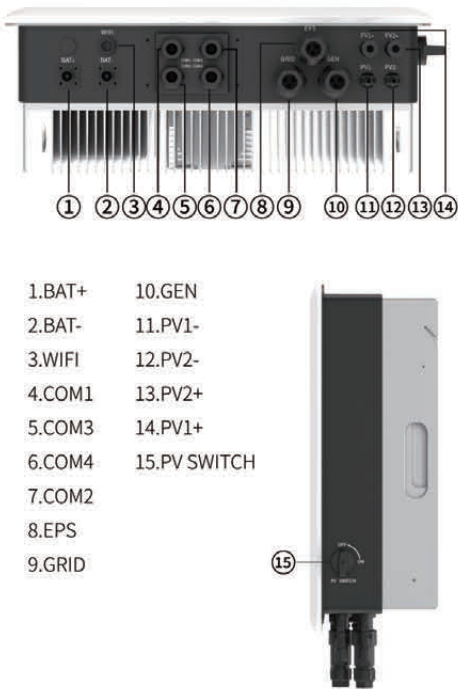


IP65, fanless design, long lifespan

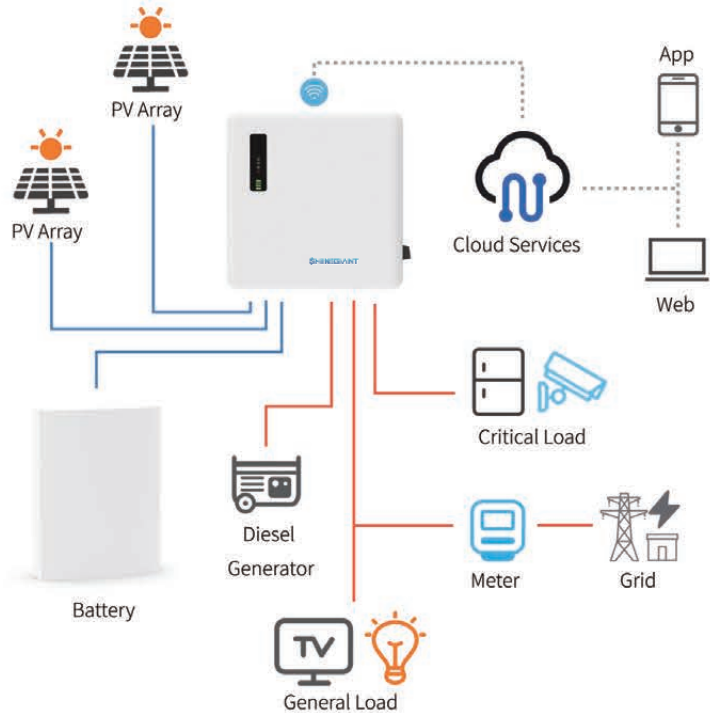


With UPS function, switch time < 10ms

Port Description



Product Application Diagram



Model								
Model	SG -HL3K-P1EU	SG -HL3K6-P1EU	SG -HL4K-P1EU	SG -HL4K6-P1EU	SG -HL5K-P1EU	SG -HL6K-P1EU	SG -HL7K-P1EU	SG -HL8K-P1EU
INVERTER INPUT / OUTPUT (GRID)								
Rated Power	3 kW	3.6 kW	4 kW	4.6 kW ^[1]	5 kW ^[2]	6 kW	7 kW	8 kW
Rated Voltage	220 / 230 / 240 V a.c., L+N+PE							
Rated Frequency	50 Hz / 60 Hz							
Power Factor Range	0.8 leading ~ 0.8 lagging							
Switch Time	<10 ms							
Current (Maximum Continuous)	13 A a.c.	15.6 A a.c.	17.4 A a.c.	20.0 A a.c.	21.7 A a.c.	26.1 A a.c.	30.4 A a.c.	34.7 A a.c.
Max. Output Overcurrent Protection	250 V a.c. / 63 A a.c.							
BATTERY								
Battery Type	Lithium / Lead-acid							
Battery Voltage Range	45 ~ 58 V d.c.							
Rated Battery Voltage	51.2 V d.c.							
Max. Charge Current	78 A d.c.	91 A d.c.	104 A d.c.	117 A d.c.	130 A d.c.	143 A d.c.	156 A d.c.	195 A d.c.
Max. Discharge Current	78 A d.c.	91 A d.c.	104 A d.c.	117 A d.c.	130 A d.c.	143 A d.c.	156 A d.c.	195 A d.c.
Reverse Connect Protection	Yes							
PV INPUT								
No. of MPPT Tracker / Strings	2 / 1+1							
Max. PV Array Power	4.5 kW	5.4 kW	6.0 kW	6.9 kW	7.5 kW	9.0 kW	10.5 kW	12.0 kW
Max. DC Voltage	550 V d.c.							
MPPT Voltage Range	120 ~ 500 V d.c.							
Start-up Voltage	120 V d.c.							
Max. Input Current	16 + 16 A d.c. (8 kW : 18 + 18 A d.c.)							
Isc PV (Absolute Maximum)	24 + 24 A d.c.							
AC OUTPUT (EPS)								
EPS Rated Output Voltage	220 / 230 / 240 V a.c., L+N+PE							
EPS Rated Output Frequency	50 Hz / 60 Hz							
EPS Rated Output Active Power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW	7 kW	8 kW
EPS Rated Output Apparent Power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA	7 kVA	8 kVA
EPS Rated Output Current	13 A a.c.	15.6 A a.c.	17.4 A a.c.	20 A a.c.	21.7 A a.c.	26.1 A a.c.	30.4 A a.c.	34.7 A a.c.
Overload Capacity (Off Grid)	120% 60s / 150% 30s / 200% 10s							
EFFICIENCY								
MPPT Efficiency	99.90%							
Euro-efficiency	97.00%							
Max. Efficiency	97.80%							
PROTECTION & FEATURE								
Insulation Monitoring	Yes							
Residual Current Monitoring	Yes							
Parallel Function	Yes							
Protection Degree	IP65							
Certifications	CEI0-21, EN 50549-1, VDE-AR-N 4105, UNE 217002, NTSTYPEA, G99, AS/NZS 4777.2							
Other Protection	Overload, Over temperature, Shortcircuit, Active anti-islanding method							
GENERAL PARAMETER								
Storage Temperature	-25°C ~ +60°C							
Operating Temperature	-25°C ~ +60°C (Linely derating to 80% when exceed +45°C ~ +60°C)							
Humidity	0-100% (Non-condensing)							
Operating Altitude	2000 m (>2000 m Derating)							
Noise	<35 dB							
Machine Dimensions (W*H*D)	506*556*206 mm							
Machine Weight / N.W.	25.6 kg							27 kg
DISPLAY& COMMUNICATION								
Display	LED + APP							
Interface	CAN / RS485 / Bluetooth / WiFi / 4G / DRM (Optional)							

• 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.
[1]: The grid feed in power for VDE-AR-N 4105 is limited 4600VA & 20A.
[2]: The grid feed in power for AS/NZS 4777.2 is limited 4999VA & 21.7A.



SG-HH8K~12K-P3EU

Three-Phase Hybrid Inverter

Residential Use

IP 65

10-Year Warranty



Easy Access
Accessible via WiFi and the web



Diverse Modes
Various application modes to accommodate different battery packs, photovoltaic panels, and loads



Diverse Interface
Includes interfaces such as a lithium battery BMS communication card and a WiFi card



Flexibility
Supports single-phase 100% unbalanced load operation off-grid, adapting to various load scenarios

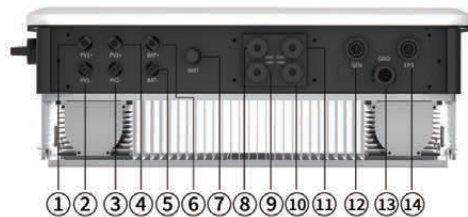


Safe
Comprehensive 360-degree security from hardware to software



IP65
Fanless design for a long lifespan

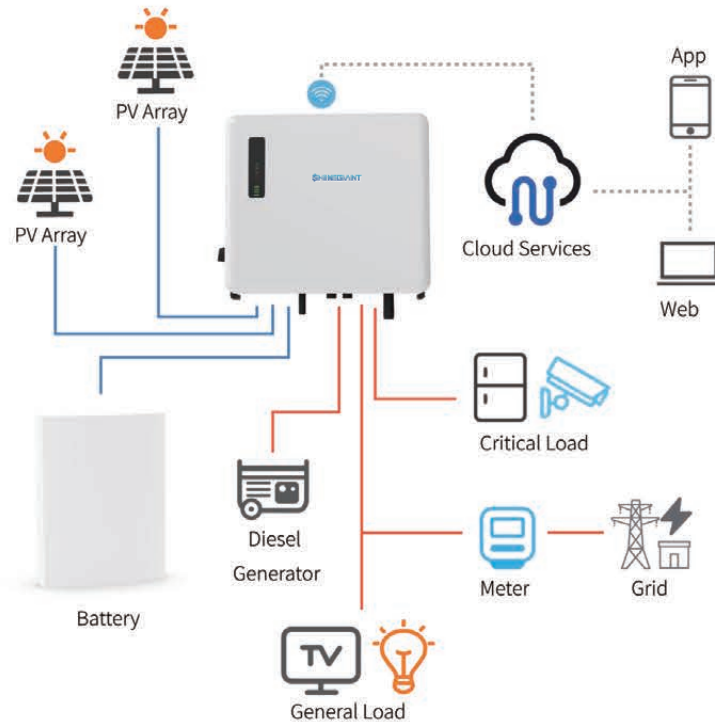
Port Description



- | | |
|--------|--------------|
| 1.PV1+ | 10.COM4 |
| 2.PV1- | 11.COM2 |
| 3.PV2- | 12.GEN |
| 4.PV2+ | 13.GRID |
| 5.BAT- | 14.EPS |
| 6.BAT+ | 15.PV SWITCH |
| 7.WIFI | |
| 8.COM1 | |
| 9.COM3 | |



Product Application Diagram



Model		SG-HH8K~12K-P3EU	
Model	SG -HH8K-P3EU	SG -HH10K-P3EU	SG -HH12K-P3EU
INVERTER INPUT / OUTPUT (GRID)			
Rated Power (Input / Output)	12 kW / 8 kW	14 kW / 10 kW	16 kW / 12 kW
Rated Voltage	380 / 400 V a.c., 3W+N+PE		
Rated Frequency	50 Hz		
Power Factor Range	0.8 leading ~ 0.8 lagging		
Switch Time	<10 ms		
Max. Continuous Current (Input / Output)	17.4 A a.c. / 12.8 A a.c.	20.3 A a.c. / 15.9 A a.c.	23.2 A a.c. / 19.1 A a.c.
Max. Output Overcurrent Protection	400 V a.c. / 60 A a.c.		
BATTERY			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range	125 ~ 800 V d.c.		
Rated Battery Voltage	200 V d.c.	250 V d.c.	300 V d.c.
Max. Charge Current	40 A d.c.		
Max. Discharge Current	40 A d.c.		
Reverse Connect Protection	Yes		
PV INPUT			
No. of MPPT Tracker / Strings	2 / 1+1		
Max. PV Array Power	12 kW	15 kW	18 kW
Max. DC Voltage	1000 V d.c.		
MPPT Voltage Range	150 ~ 950 V d.c.		
Start-up Voltage	200 V d.c.		
Max. Input Current	16 + 16 A d.c.		
Isc PV (Absolute Maximum)	24 + 24 A d.c.		
AC OUTPUT (EPS)			
EPS Rated Output Voltage	380 / 400 V a.c., 3W+N+PE		
EPS Rated Output Frequency	50 Hz		
EPS Rated Output Active Power	8 kW	10 kW	12 kW
EPS Rated Output Apparent Power	8 kVA	10 kVA	12 kVA
EPS Rated Output Current	11.6 A a.c.	14.5 A a.c.	17.4 A a.c.
Overload Capacity (Off Grid)	110% 30s / 120% 10s / 150% 2s		
EFFICIENCY			
MPPT Efficiency	99.90%		
Euro-efficiency	97.50%		
Max. Efficiency	98%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes		
Protection Degree	IP65		
Certifications	CEI 0-21, EN 50549 -1, VDE -AR-N 4105, UNE 217002, IEC62109-1/2 , IEC61000, NTS631		
Other Protection	Output over voltage, Output over current, Short circuit, Surge, Temperature, Anti-islanding		
GENERAL PARAMETER			
Storage Temperature	-25°C ~ +60°C		
Operating Temperature	-25°C ~ +60°C (Linely derating to 60% when exceed +45°C ~ +60°C)		
Humidity	0~100% (No-condensing)		
Operating Altitude	4000 m (>2000 m Derating)		
Noise	<35 dB		
Machine Dimensions (W*H*D)	530*600*210 mm		
Machine Weight/ N.W.	35 kg		
DISPLAY& COMMUNICATION			
Display	LED + APP		
Interface	CAN / RS485 / Bluetooth / WiFi / 4G / DRM (Optional)		

- 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.

SG-HH40K~60K-P3EU

Three-Phase Hybrid Inverter

C&I Use

IP 66

5-Year Warranty

- 

1.67 Times PV Power
4 MPPTs, 8 Strings with
20A PV input current,efficiency up to 99.9%
- 

Diverse Modes
Cold start, Off-grid, Economic mode,
Generator access. Remote maintenance in real time
- 

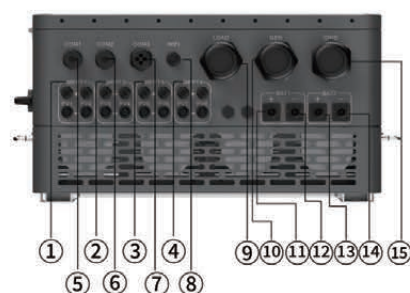
2* Independent Battery Inputs
100A*2 Maximum Charging/Discharging current.
Up to 200A parallel current in one cabinets.
- 

All-Silicon Carbide Structure
High-efficiency operation, lightweight design,
improves energy conversion efficiency and
equipment stability
- 

IP66 Protection
Ensure the reliable operation of the equipment
in harsh industrial and commercial environments
- 

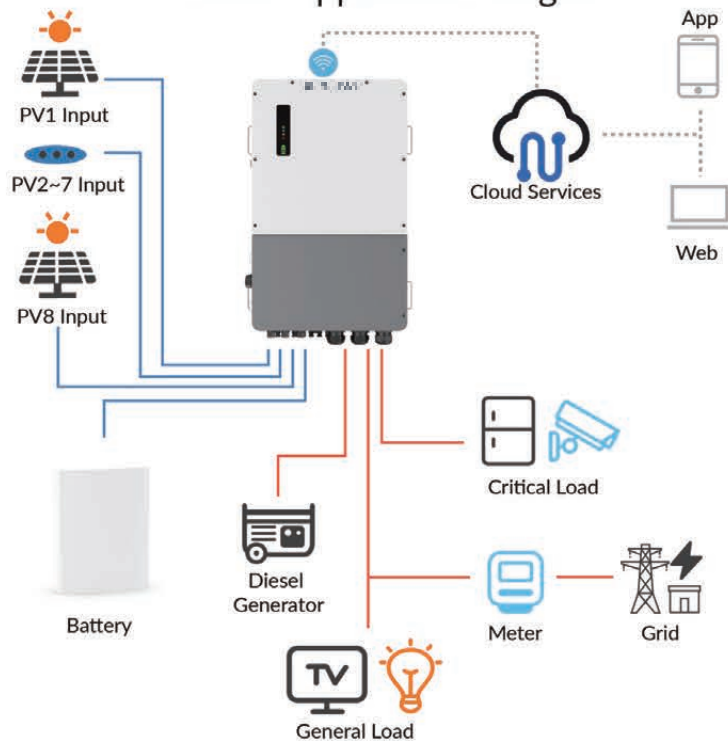
Multi-Machine Parallel
Up to 6 sets of multi-machine parallel connections,
providing flexible expansion solutions for large-capacity demand

Product Characteristics



- | | |
|----------------------|------------------------|
| 1.MPPT1 (PV1±, PV2±) | 11.BAT1+ |
| 2.MPPT2 (PV3±, PV4±) | 12.BAT1- |
| 3.MPPT3 (PV5±, PV6±) | 13.BAT2+ |
| 4.MPPT4 (PV7±, PV8±) | 14.BAT2- |
| 5.COM1 | 15.GRID |
| 6.COM2 | 16.Power on/off button |
| 7.COM3 | 17.PV Switch |
| 8.WIFI | |
| 9.LOAD | |
| 10.GEN | |

Product AppLication Diagram



Model		SG-HH40K-K-P3EU	
Model	SG -HH40K-P3EU	SG -HH50K-P3EU	SG -HH60K-P3EU
INVERTER INPUT / OUTPUT (GRID)			
Rated Power (Input / Output)	138 kW / 40 kW	138 kW / 50 kW	138 kW / 60 kW
Rated Voltage	380 / 400 V a.c., 3W+N+PE		
Rated Frequency	50 Hz / 60 Hz		
Power Factor Range	0.8 leading ~ 0.8 lagging		
Switch Time	<10 ms		
Max. Continuous Current (Input / Output)	200 A a.c. / 58 A a.c.	200 A a.c. / 72 A a.c	200 A a.c. / 87 A a.c
Max. Output Overcurrent Protection	123 A a.c.	153 A a.c.	185 A a.c.
BATTERY			
Battery Type	Lithium / Lead-acid		
Battery Voltage Range	150 ~ 800 V d.c.		
Rated Battery Voltage	200 V d.c.	250 V d.c.	300 V d.c.
Max. Charge Current	2*100 A d.c.		
Max. Discharge Current	2*100 A d.c.		
Reverse Connect Protection	Yes		
PV INPUT			
No. of MPPT Tracker / Strings	4 / 2+2+2+2		
Max. PV Array Power	68 kW	85kW	100 kW
Max. DC Voltage	1000 V d.c.		
MPPT Voltage Range	150 ~ 950 V d.c.		
Start-up Voltage	125 V d.c.		
Max. Input Current / string	8*20 A d.c.		
Isc PV (Absolute Maximum) / string	8*30 A d.c.		
AC OUTPUT (EPS)			
EPS Rated Output Voltage	380 / 400 V a.c., 3W+N+PE		
EPS Rated Output Frequency	50Hz / 60 Hz		
EPS Rated Output Active Power	40 kW	50 kW	60 kW
EPS Rated Output Apparent Power	44 kVA	55 kVA	66 kVA
EPS Rated Output Current	58 A a.c.	72 A a.c.	87 A a.c.
Overload Capacity (Off Grid)	110% 30s/ 120% 10s/ 150% 0.2s		
EFFICIENCY			
MPPT Efficiency	99.90%		
Euro-efficiency	97.50%		
Max. Efficiency	98.5%		
PROTECTION & FEATURE			
Insulation Monitoring	Yes		
Residual Current Monitoring	Yes		
Parallel Function	Yes, up to 6pcs		
Protection Degree	IP66		
Certifications	CEI 0-21, EN 50549-1, VDE-AR-N 4105, UNE 217002, NTSTYPEA, G99, AS/NZS 4777.2		
Other Protection	Ground Fault Current Monitoring, Earth Fault Detection, Residual Current (RCD) Detection		
GENERAL PARAMETER			
Storage Temperature	- 25°C ~ +60°C		
Operating Temperature	- 25°C~ +60 °C (>+45°C Derating)		
Humidity	0% ~ 95% (Non-condensing)		
Operating Altitude	4000 m (>2000 m Derating)		
Noise	<65 dB		
Machine Dimensions (W*H*D)	544*880*278 mm		
Machine Weight / N.W.	88 kg		
DISPLAY& COMMUNICATION			
Display	LED + APP		
Interface	RS485 / WiFi / CAN / DRM (Optional: Bluetooth / LAN / 4G / 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.

Single Phase Off-grid Inverter

DIT



1.2KW
PV800-12 S1.2



Built-in 50A
Solar Charger



PV Input Voltage
Range 17-115V



Pure Sine Wave

LCD

LCD Display

BMS

Support Lithium/
Lead-acid Battery



Lithium Battery
Activation

PF

Power Factor 1.0

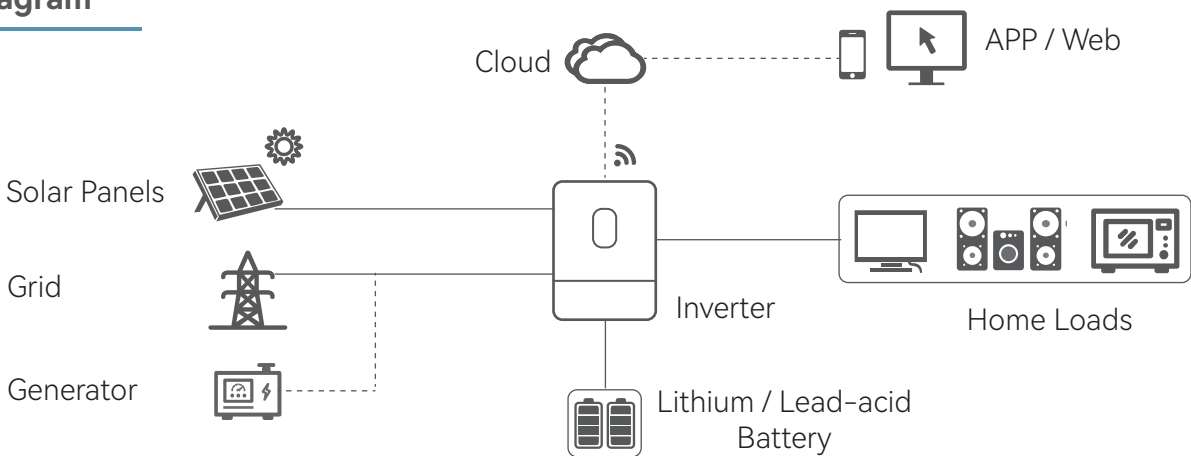


Detachable
Dust Cover



WiFi
Monitoring(optional)

System Diagram



Specifications

Model	PV800-12 S1.2
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	1.2
Surge Power (kVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (APP/UPS/GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%-120% load; 10s@120%-20% load;
Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	18A / 800W
MPPT Range@Operating Voltage (VDC)	17-115
Max PV Open Circuit Voltage (VDC)	115
Max PV Charge Current (A)	50
Max AC Charge Current (A)	50
Max. Charge Current (PV + AC) (A)	100
Battery	
Normal Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Battery Type	Lead-acid / Lithium
Interface	
HMI	LCD
Interface	RS232 / RS485 / USB
Monitoring	Wifi(optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C - 60 °C
Relative Humidity	5% - 95% (Non-condensing)
Storage Temperature	-15 °C - 60 °C
Net Weight (kg)	3.5
Dimensions (W*H*D)	347*236*91mm
Max. Operating Altitude	4000m (Derating above 1000m)
Activation	
AC Activation	YES
PV Activation	YES

Single Phase Off-grid Inverter

DIT



3.6KW
FN3K6S-CH1



Built-in 100A
Solar Charger



Wide MPPT
Range 40-500V



Workable with
Generator



Complete CE
Certificate

BMS

Support Lithium/
Lead-acid Battery



Lithium Battery
Activation

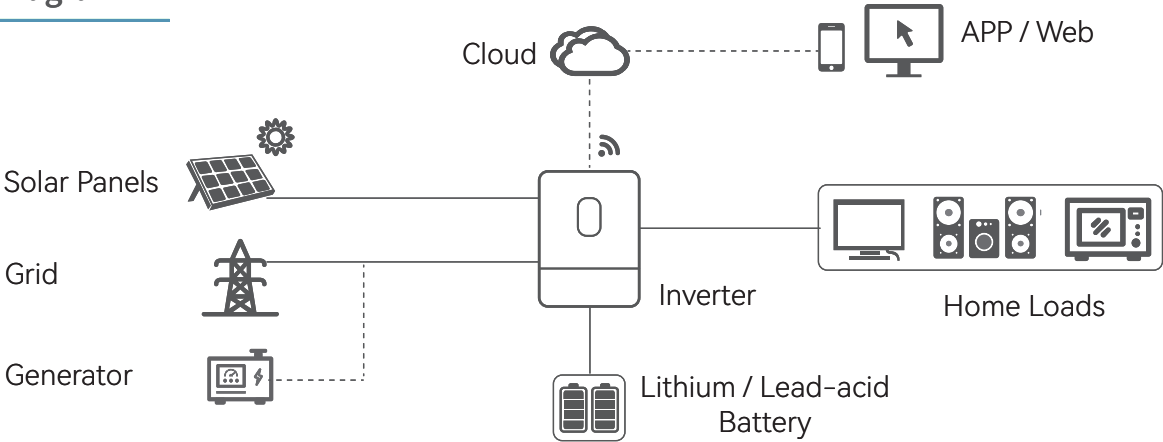


Detachable
Dust Cover



WiFi
Monitoring

System Diagram



Specifications

Model	FN3K6S-CH1
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	3.6
Surge Power (kVA)	5.7
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input Current / Input Power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP20
Operating Temperature	-10 °C ~ 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	8
Dimensions (W*H*D)	490*306*115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

Single Phase Off-grid Inverter

DIT



5KW
PV9000-24 S5.0

- 

Built-in 160A
Solar Charger
- 

Wide PV Input Voltage
Range 60~500V
- 

27A
MAX PV Input
- DUAL



Dual AC Out
- 

5 Inch Display
- BMS



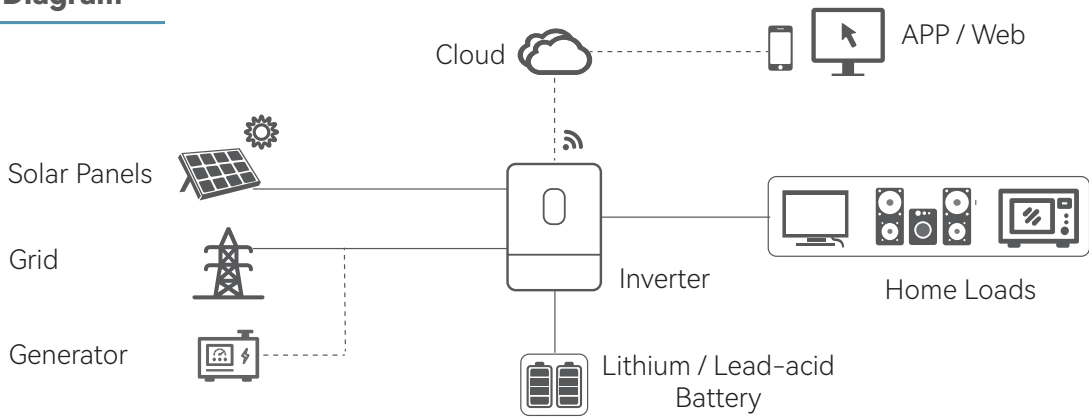
Support Lithium/
Lead-acid Battery
- 

Lithium Battery
Activation
- 

Feed-in
to Grid
- 

WiFi
Monitoring(built-in)

System Diagram



Specifications

Model	PV9000-24 S5.0
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5
Surge Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%-120%load, 10s>120% load
Max. Efficiency (Battery Mode)	93.5%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max. PV Input Current / Input Power	27A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / USB
Monitoring	WiFi (built-in)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	8.4
Dimensions (W*H*D)	410*336*110mm
Max. Operating Altitude	4000m (Derating above 1000m)

Single Phase Off-grid Inverter

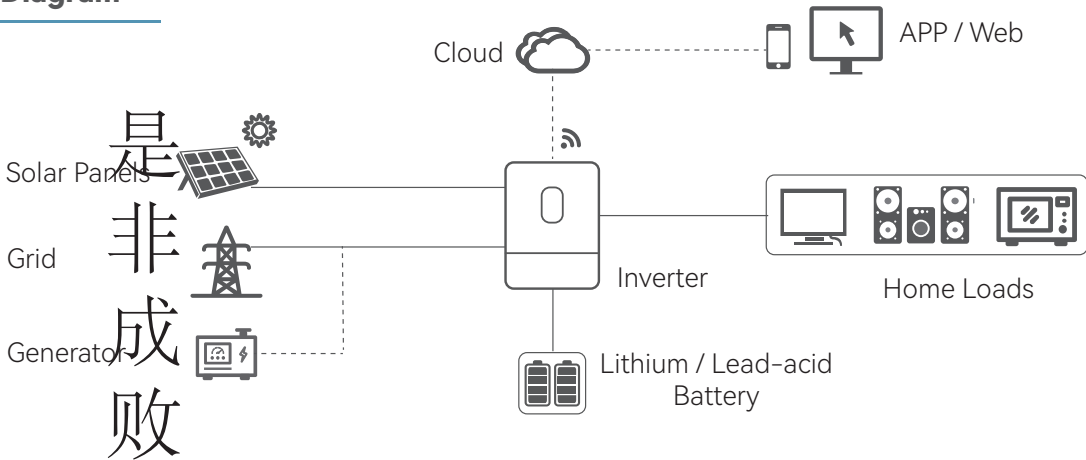
DIT



6KW PV9000-48 S6.0

- Built-in 120A Solar Charger
- Wide PV Input Voltage Range 60-500V
- 27A MAX PV Input
- DUAL Dual AC Out
- 5 Inch Display
- BMS Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- Feed-in to Grid
- WiFi Monitoring(built-in)

System Diagram



Specifications

Model	PV9000-48 S6.0
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	Previous continuous load < 2.5kW: 15min@102%~108% load; 1min@108%~120% load; 10s@ > 20% load Or 1min@102%~120% load; 10s@ > 20% load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	27A / 9000W
MPPT Range@Operating Voltage (VDC)	60-450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / USB
Monitoring	WiFi (None / Internal / External)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 ℃ - 60 ℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 ℃ - 60 ℃
Net Weight (kg)	8.4
Dimensions (W*H*D)	410*336*110mm
Max. Operating Altitude	4000m (Derating above 1000m)

Li-Sun Wall Stand Lithium Battery Pack

5KWH-10KWH

25.6V200Ah, 51.2V100Ah, 51.2V120Ah, 51.2V170Ah, 51.2V200Ah



Main Features

- Class A cell, Strong and reliable quality.
- 6000 cells cycle times, 5 years warranty, 10+ years life design
- Power wall design, space saving design
- High density, small size and weight
- Big charge/discharge current up to 100A/200A, suitable for solar storage system
- LCD display with communication port(CAN/RS485/RS232) .
- All around protection
- Optional smart BMS can communicate with Different Brand of Hybrid Solar Inverter

We can provide a variety of lithium battery solutions according to your needs



SPECIFICATION	MODEL	Li-Sun 25.6V200Ah	Li-Sun 51.2V100AH	Li-Sun 51.2V120AH	Li-Sun 51.2V170AH	Li-Sun 51.2V200AH
Battery Type		LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Normal Battery Model		25.6V200AH	51.2V100AH	51.2V120AH	51.2V170AH	51.2V200AH
Normal Capacity(25°C, 0.2C)		5120Wh	5120Wh	6144Wh	8704KWh	10.24KWh
Voltage window (Vdc)		22.4 ~ 29.2V	44.8 ~ 58.4V	44.8 ~ 58.4V	44.8 ~ 58.4V	44.8 ~ 58.4V
Folat Charge Voltage(Vdc)		28.0V	55.2V	55.2V	55.2V	55.2V
Max.continue discharge current(A)		150A	100A	100A	150A	150A
Max.pulse discharge current(A)		200A 30Sec.	200A 30Sec.	200A 30Sec.	200A 30Sec.	200A 30Sec.
Max.continue charge current(A)		100A	100A	100A	100A	100A
Terminal	M8					
Storage temperature	0°C ~ 30°C					
Storage duration	6 months at 25°C					
Safety standard	UN38.3,MSDS,CE					
IP degree	IP20					
Communication function	CAN/RS485/RS232 Intelligent BMS can communicate with multiple solar inverters, For example :Deye, Growatt, Voltronic, GOODWE, SMA, SOFAR, etc.					
PROTECTION						
Protection	Overcharge protection,Overdischarge protection,Overcurrent protection, Shortcircuit protection, Overtemperature protection					
AMBIENT						
Noise(dB)	< 40dB (1 meter)					
Working Temperature	Discharge: -10°C~+50°C, Charge: 0°C~+50°C					
Humidity	0~95% (no condensation)					
Sea Level(m)	≤8000					
DIMENSION						
L×W×H (products size) mm	611*420*224mm	611*420*224mm	611*420*224mm	780*460*166mm	780*460*166mm	
L×W×H (package size) mm	689*479*285(UN carton)	689*479*285(UN carton)	689*479*285(UN carton)	829*499*213(UN carton)	841*511*228(UN carton)	
Weight(NW Kg)	44.0Kg	44.5Kg	50.8Kg	71.0Kg	69.0Kg	
Weight(GW Kg)	48.0Kg	48.5Kg	55.0Kg	76.0Kg	73.7Kg	

Smart BMS supports communication with different brand of hybrid inverter



5KWH 10KWH 15KWH

Wall Mounted Battery

- 8000 cells cycle times
- 10+ years life design

Smart BMS can communication with different brand of hybrid solar inverter

FEATURES

- Functions: 4-way battery temperature detection ($\leq 2^{\circ}\text{C}$), SOC estimation function, SOH estimation function. Short circuit protection function, adjustable overcurrent protection, multiple sleep and wake-up modes, low power consumption. Dual RS485 communication, parameter adjustable setting, buzzer alarm function, LED status indication function, charging equalization function.
- higher 80% DoD charging and discharging under standard conditions, more than 6000 cycle.
- High integrated analog front end, isolated power circuit, integrated serial port IC, high voltage accuracy ($\leq 20\text{mV}$), high current accuracy ($\leq 2\%$ @ FS)
- Temperature range of battery: $-10\sim 60^{\circ}\text{C}$, Support parallel (up to 16 groups) application expansion.
- Using lithium iron phosphate technology with LiFePO₄ new Level A cell

Model	SGLB-48100	SGLB-48200	SGLB-48280
Usable Capacity	5.12KWh	10.24KWh	14.336KWh
BatteryType	LiFePO ₄	LiFePO ₄	LiFePO ₄
Nominal Voltage	51.2	51.2	51.2
Voltage Range	44-57.6	44-57.6	44-57.6
Recommend Charge Cut-off Voltage	57.6	57.6	57.6
Recommend Discharge Cut-off Voltage	44	44	44
MAX. Charge & Discharge Current	100A @120S	150A @120S	200A @120S
Recommend Charge& Discharge Current	80A	120A	160A
MAX.Output Power	5000W	7500W	10000W
Recommend Output Power	$\leq 4000\text{W}$	$\leq 6000\text{W}$	$\leq 8000\text{W}$
DOD	$\geq 95\%$	$\geq 95\%$	$\geq 95\%$
Modules Connection	1-16 in parallel	1-16 in parallel	1-16 in parallel
Communication	CAN&RS485	CAN&RS485	CAN&RS485
Ingress Protection	IP20	IP20	IP20
Cycle Life	$\geq 8000@25^{\circ}\text{C}$, 70%DOD	$\geq 8000@25^{\circ}\text{C}$, 70%DOD	$\geq 8000@25^{\circ}\text{C}$, 70%DOD
Working Temperature Range	Discharge: -20°C to $+60^{\circ}\text{C}$ Charge: $+0^{\circ}\text{C}$ to $+55^{\circ}\text{C}$	Discharge: -20°C to $+60^{\circ}\text{C}$ Charge: $+0^{\circ}\text{C}$ to $+55^{\circ}\text{C}$	Discharge: -20°C to $+60^{\circ}\text{C}$ Charge: $+0^{\circ}\text{C}$ to $+55^{\circ}\text{C}$
Net Weight(KG)	51.5	92	119.1
Product Dimension(MM)	660*400*180.25	800*472*199	899.74*443*245

Smart BMS supports communication with different brand of hybrid inverter



DIT

Product features

- Can be recycled up to 8000 cycles
- Support wall-mounting or floor-mounting
- Compatible with many brands of inverter protocols
- Up to 9 in parallel, BAT-S48100 can expand to 46.08kWh and BAT-S48100 to 92.16kWh
- Small size, save installation space
- Can be wired from either side
- Built-in Bluetooth & Wi-Fi

MODEL	BAT-S48100		BAT-S48200
MAIN INFO			
Rated Voltage	51.2V		
Rated Capacity	100Ah	200Ah	
Battery Power	5.12kWh	10.24kWh	
Battery Type	LFP		
Cycling Lifespan	8000(80%DOD,0.5C,25°C)		
Lifetime	20 years		
Max. Parallel Capacity	9 units		
CHARGE & DISCHARGE			
Max. Charging Voltage	57.6V		
Over Discharging Voltage	44.8V		
Max. Charging Current	100A (1C)	150A (1.5C)	
Peak Charging Current	110A (1.1C,3s)	200A(2C,3s)	
Max. Discharging Current	100A (1C)	200A (2C)	
Peak Discharging Current	110A (1.1C,3s)	220A(2.2C,3s)	
GENERAL			
Weight	47kg	88kg	
Dimension(L*W*H)	460*100*725mm	620*191*1014mm	
Communication	CAN/RS485/USB/WiFi/Bluetooth		
Storage Condition	6 months@25°C/77°F,3 months@35°C/95°F, 1 month@45°C/113°F		
Charging Temp.Range	0~45°C(32~113°F)		
Discharging Temp. Range	-10~45°C (14~113F)		
Cooling Method	Natural cooling		
Protection Grade	IP65	IP65	
STANDARD			
Transportation	UN38.3.MSDS		
Safety	IEC 62619: 2017,EN IEC 61000-6,UL1973		

Li-MAX Lithium Battery substituted Lead

- 12.8V50Ah,12.8V100Ah,12.8V150Ah
- 12.8V200Ah,25.6V100Ah,25.6V150Ah



Main Features

- 12V 24V LiFePO4 pack, safe and reliable.
- Class A cell Strong and reliable quality.
- Max discharge current up to 200A, suitable for inverter or ups system
- Long life design, cells cycle time up to 3000times, 5+ life design.
- With smart BMS system for all around protection.
- High density, small size and weight .
- Plastic case, ideal choice for lead acid battery replacement.
- Support in series or parallel connection.
- Optional for bluetooth monitor.

We can provide a variety of lithium battery solutions according to your needs



MODEL SPECIFICATION	Li-MAX 12.8V50AH	Li-MAX 12.8V100AH	Li-MAX 12.8V150AH	Li-MAX 12.8V200AH	Li-MAX 25.6V100AH	Li-MAX 25.6V150AH
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Normal Battery Model	12.8V50AH	12.8V100AH	12.8V150AH	12.8V200AH	25.6V100AH	25.6V150AH
Normal Capacity(25 °C, 0.2C)	640WH	1280WH	1920WH	2560WH	2560WH	3840WH
Voltage window (Vdc)	11.2 ~ 14.6V	11.2 ~ 14.6V	11.2 ~ 14.6V	11.2 ~ 14.6V	22.4 ~ 29.2V	22.4 ~ 29.2V
Folat Charge Voltage(Vdc)	14.0V	14.0V	14.0V	14.0V	28.0V	28.0V
Max.continue discharge current	50A	100A	100A	200A	100A	150A
Max.pulse discharge current	100A 1Sec.	200A 1Sec.	200A 1Sec.	300A 1Sec.	200A 1Sec.	200A 1Sec.
Max.continue charge current	25A	50A	100A	100A	50A	75A
Terminal	M6	M8				
Storage temperature	0℃~ 30℃					
Storage duration	6 months at 25℃					
Safety standard	UN38.3,MSDS,CE					
IP degree	IP65					
PROTECTION						
Protection	Overcharge protection ,Overdischarge protection ,Overcurrent protection、 Shortcircuit protection,Overtemperature protection					
AMBIENT						
Working Temperature	-10℃~ +50℃					
Humidity	0~95%(no condensation)					
Sea Level(m)	≤1500					
DIMENSION						
L×W×H (products size) mm	231*145*211	332*172*220	484*170*240	522*218*238	522*218*238	522*218*238
L×W×H (package size) mm	239*154*252	342*181*265	497*180*292	532*252*268	532*252*268	532*252*268
Weight(NW Kg)	5.5kg	12.0kg	15.0kgs	27.0Kg	27.0Kg	30.0Kg
Weight(GW Kg)	6.0kg	13.0kg	16.0kg	28.0Kg	28.0Kg	32.0Kg

STORAGE SOLAR SYSTEM



Product features

- Can be recycled up to 8000 cycles
- Supports wall, floor, stack or rack mounting
- Compatible with many brands of inverter protocols, directly communicate with computer
- Up to 9 in parallel connection, expand to 45kWh
- Smal size,save instalation space
- Low internal resistance design

MODEL	SGRB-48100
MAIN INFO	
Rated Voltage	51.2V
Rated Capacity	100Ah
Battery Power	5.12kWh
Battery Type	LFP
Cycling Lifespan	8000(80%DOD,0.2C,25°C)
Lifetime	20 years
Max. Parallel Capacity	9 units
CHARGE & DISCHARGE	
Max. Charging Voltage	43.2V~58.4V
Over Discharging Voltage	51.2V
Standard Charge Current	50A
Max. Charging Current	100A (1C)
Peak Charging Current	110A (1.1C,3s)
Standard Discharge Current	50A
Max. Discharging Current	100A (1C)
Peak Discharging Current	110A (1.1C,3s)
GENERAL	
Weight	45kg
Dimension(L*W*H)	648*440*180mm
Communication	CAN/RS485
Storage Condition	6 months@25'C/77'F,3 months@35'C/95°F, 1 month@45°C/113°F
Charging Temp.Range	0~45°C
Discharging Temp. Range	-10~45°C
Cooling Method	Natural cooling
Protection Grade	IP20
STANDARD	
Transportation	UN38.3.MSDS
Safety	IEC 62619:2017,EN IEC 61000-6,UL1973

Rack Type Battery Module

- Rack type, more flexible in combination
- Features:
 1. Personalization
 2. Support up to 15 groups of batteries in parallel
 3. High-performance intelligent battery managing system more accurate data, more comprehensive protection
 4. Longer service life of float charging
 5. Fast, flexible, distributed, rack-mounted, modular deployment, easy to install and save space



Item	LB5E1
Battery type	LiFePO4
Capacity	4800Wh
Standard charge current	50A
Max discharge current	100A
Max charge current	54.75V
Max discharge current	100A
Communication port	RS485, RS232, CAN, dry contact
Parallel gty	1~15
Charge temp.	0~55°C
Discharge temp.	-25~60°C
Working humidity	MAX 90%RH
Storage temp	-20°C~50°C(15°C~25°C the best)
Cycle times	>8000times(80% capacity retenion)
N.W.	45kg
Dimension L*W*H	583x440x132mm(Not include handles)
IP Grade	IP21

SHINEGIANT SG-LB5000



MPPT 6000W
High Power Output



LFP battery cells,
safer and more durable



APP Remote Monitoring



Super fast charging
Bidirectional Converter



Increasing life span,
lower noise



Use for wide areas

5120Wh Available time



Lab data
23km



1200W
4.2h



1500W(1.5L)
3.4h



1150W
4.4h



2000W
2.5h



1100W
4.6h



1000W
5.1h



1200W
2.5h

DIT SG-LB5000

HOME BACKUP POWER

The New Era of Home Backup Power

APP Remote Control
APP Upgradable Firmware

5120Wh LiFePO4
5kW Pure Sine Wave Inverter

CATL Battery with
6000+ Cycles

24*7 UPS
Plug And play

PRODUCT PARAMETERS

Basic Parameter			
Total battery capacity	5120Wh		
Output power	5000W Max		
AC input power	2200W Max		
Surge Capacity	7000VA continuing/5S		
PV Chargeing			
Input power	6000W Max		
Input Voltage	500Vdc Max		
MPPT/Number of strings that can be connected	1/2		
MPPT Voltage Range	120-430V		
Input Current	80A Max		
Grid/Charging Pile Charging			
Rated Input Voltage/Voltage Range	230Vac/180-270Vac		
Charging Current	10A Max		
Rated Frequency	50Hz(45-54Hz)/60Hz (55-65Hz)		
Emergency Power Output			
Rated Output Voltage	230Vac AC(110Vac/220Vac)		
Frequency	50/60Hz		
Output Power	5000W Max		
Switch Time	20ms		
Energy Storage Battery			
Battery Type	LFP		
Rated Battery Voltage	51.2V		
Battery Capacity	100Ah		
Battery Voltage Range	40-58.4V		
Charging/Discharging Current	100A Max		
Other System Parameters			
Cooling Method	Air Cooling		
Relative Humidity	5-95% Non-Condensing		
Dimension(W*D*H)	498*336*620mm		
Weight (Kg)	68Kg		
Efficiency			
MPPT Efficiency	99.5% max		
Max. Efficiency	>99.5%		
Battery Mode	>93.5%@1KVA	>93.5%@3KVA	>91.5%@5KVA
General			
Operation Environment Humidity	20%~95%(No condensing)		
Max.Operating Altitude	4,000 m(13,123 ft.) (Derating above 2000 m)		
Protection	AC high(low) voltage, Battery high(low) voltage, Photovoltaic high(low) voltage, Overload, Short-circuit protection		
Communication Interface	RS232/ RS485 /USB Type-A / USB Type-B		
Operating Temperature	-22 to 55℃		

All-in-one Energy Storage System

- Residential PV+ESS solution, power utility solving

Features:

1. All in one solution, be easy to install
2. High-performance intelligent battery management system
3. Long cycle life
4. UpS function, pure sine output, built-in MPPT
5. WIFI, remote monitoring the system operating status

DIT



Item		AL5050E1
Battery	Battery cell	LiFePO4
	Capacity	5000wh
AC port	Rated loading power	5000VAV5000W
AC input	Rated volta ge	230Vac
	Max curent	80A (battery port)
PV input	Max input current	18A
	PV voltage	150V
	Open-circuit voltage	500V
	Max charge curent	100A
Other	Charge temperature	WIFI module
	Charge temperature	0~55℃
	Discharge temp.	-25~60℃
	Working humidity	MAX 90%RH
	Storage temp.	20'C50°C (15'C~25'c the best)
	Battery cycle	>4000times (80% capacity retention rate)
	N.W.	56kg
	Dimension L*W*H	512*300*584 mm
	Protection	P54

Specifically designed for areas with power shortages,
frequent power outages, or high electricity costs

PCS+PVinverter+ESS+EMS

ALL IN ONE

Long-term residential energy storage system

Battery Capacity

8000Wh/16000Wh



Global Serving | Customize Your Own Brand Power Supply



ALL IN ONE design: Highly integrated energy storage inverter, photovoltaic inverter, energy storage battery and energy management system in one unit.



Industrial-grade High Capacity and Long-life LiFePO4 Battery Cells: Battery cells with a cycle life exceeding **11,000 cycles**.



Long-term Cost-effective Design: Capable of providing household electricity for more than **5 days** when fully charged (*).



Supports High-power Photovoltaic Generation: Fully satisfies the requirements for **zero-carbon green electricity** supply for household self-consumption (**), eliminating the need for high electricity costs.



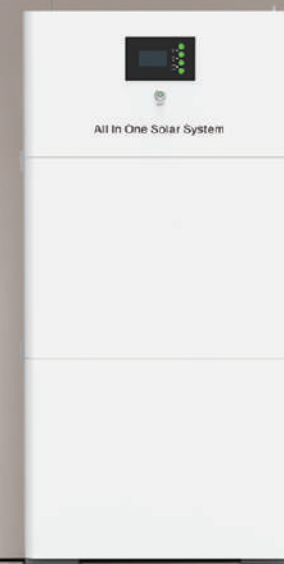
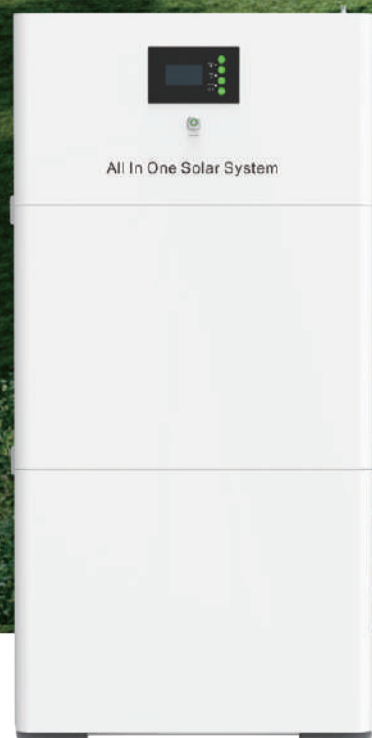
Versatile Applications: Suitable for PV only, Grid only, PV + Grid, UPS, and pV+Generator configurations.



Simplified Installation: No complex wiring required. Easy Maintenance, User-friendly Operation.

Model		A1665	A0836
Battery	Battery Type	LiFePO4	
	Capacity	16076Wh	8038Wh
AC Output	Output Topology	L+N+PE	
	Output Rating	6500VA	3600VA
	Rated Output Voltage	208-240V(Adjustable)	
	Waveform	Sine Wave	
	Frequency	50/60Hz	
	Overload Capacity	30s@130%~150%Load;10s@150%~200%Load	10s@130%~150%Load;3s@110%~130%Load
AC Input	Input Topology	L+N+PE	
	Input Voltage	176~264VAC	
	Input Frequency	40~70Hz	
	Max input Current	MAX 40A(RMS)	MAX 20A(RMS)
PV Input	PV Max Input Power	9000W	5000W
	PV Max Input Current	28A	18A
	PV Max Open Circuit Voltage	500VDC	
	MPPT Voltage Tracking Range	60~450VDC	40~450VDC
	MPPT Tracking Max Efficiency	99.5%	
Others	Charging Temperature	0°C~55°C	
	Discharge Temperature	-20°C~55°C	
	Use Ambient Humidity	Max 90%RH	
	Storage Ambient Temperature	-20°C~50°C(15~25°C Best)	
	Battery Cycle Life	>11000 time(70%SoC)	
	Net Weight	About 130kg	About 80kg
	Size:L*W*H	670*240*935 mm	480*240*835 mm
	Grade of Protection	IP21	

(*) The duration of operation may vary based on the home's power consumption.
(**) Performance is dependent on the photovoltaic input power.



Product features:

- Excellent high and low temperature performance
- High energy density
- Certain energies are high
- Good safety performance
- Long cycle life
- Rapid charge and discharge
- Large capacity, long life
- Can be wall hanging, can be stacked
- Low self-discharge rate
- Parallel connection, up to 15

Application field:

- Communication base station, data center.
- Communication outdoor cabinet
- Solar hybrid power system
- Home energy storage system

5KW Stackable All in one Series



Application scenario



Inverter

MODEL	SSA 5K
Rated Power	5000VA/5000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
ACVoltage Regulation (Batt. Mode)	230VAC+5%
Surge Power	10000VA
Efficiency (Peak)	up to 93.5%
Transfer Time	10 ms (For Personal Computers);20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48VDC
Floating Charge Voltage	54VDC
Overcharge Protection	63VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	450VDC
Maximum PV Array Power	5000W
MPPT Range @ Operating Voltage	120-430VD
Maximum Solar Charge Current	80A
Maximum AC Charge Current	80A
Maximum Charge Current	80A
PHYSICAL	
Net Weight (kgs)	10
Communication interface	USB/RS232
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10'C to 50'C
Storage Temperature	-15'C to 60'C

Batteries

MODEL	BAT S48100	BAT S48200	BAT S48300
Batteries materials		Lithium iron phosphate	
Series parallel mode (s series, P parallel)	16S1P	16S1P	16S1P
Rate voltage	51.2V	51.2V	51.2V
Rate capacity	100Ah	200Ah	300Ah
Size(mm)	588*430*195(monomer)	588*430*195(monomer)	588*430*195(monomer)
Weight	48kg (Battery pack)	96kg(Battery pack)	144kg(Battery pack)
Color	Optional		
Charging way	CC/CV		
Charging current	0.2C(standard)		
Maximum charging current	Max1C @25°C		
Charge cut-off voltage	58.4V		
Discharge way	CP/VP		
Discharge current	1C		
Maximum discharge current	Max1C @25°C		
Discharge cut-off voltage	44.8V		
Communication interface	RS485/RS232/CAN		
Charging operating temperature	charging:0~~+509C		
Discharge operating temperature	discharge:-20~~+55°C		
Inverter	3.5KW/5.5KW		
The quality assurance period	60 months		



BES 2.4K

2.4KW Balcony energy storage inverter

- Advanced MPPT with up to 99.9%
- With IP65 protection degree

BAT H48050

15kWh Balcony energy storage battery pack

- A Grade Cell, High energy density, Long service life
- Easiness of installation and expansion

SG S100 / SG S200

100W / 200W Balcony energy storage solar panel

- Module efficiency up to 19.30%
- Adopts 7-layer lamination technology with IP68 waterproof rating

inverter Model

BES 2.4K

Rating	2400W
Peak power	4800W
Machine architecture	Bidirectional Ac/DcInverter/Lift Voltage MPPT
Exports	
Rated voltage	220/230/240VAC
Output frequency	50/60Hz±0.1%
Output Waveforms	pure sine wave
THDV%	<2%(linearload)<7%(non-linear loads)
Overload capacity	5 minutes @ 102%~120% rated load 10s@120%~150% rated load 5S@>150% of rated load
Efficiency	
Mains charging (Ac-battery)	93%
Battery discharge(battery-AC)	92%
MPPT	99.9%
PV charging efficiency	96%
Input(grid)	
Input Voltage Range	184Vac~253Vac
Input Frequency Range	48HZ-51Hz
Input power factor	≥95
Battery charging	
Charge control method	Precharge, Constant Current, Constant Voltage, Equalisation, Float,Shutdown
Charge Abort Voltage	56.8V/continuously adjustable
Discharge Abort Voltage	44V/continuously adjustable
Charging current	Max.40A, default 20A
Precharge current	1.5A
Solar charging	
PV inputPower	800W*2
PV Open Circuit Voltage	100VDC
PV Operating Voltage Range	10~100VDC
PV input Current	16Amax
Number of MPPTS	2
PV charging current	0~16A*2
Structural shape	
Sizes	394mm*266mm*92mm
Weight (kg)	7.5kg

Battery Model

BAT H48050

Nominal Energy	2.5kWh
Nominal Battery Voltage	51.2Vdc
Nominal Capacity	50Ah
Max. charge Current	25A
Max. Discharge Current	50A
Operation Voltage Range	44.8Vdc~58.4Vdc
Operation Temperature	-10°C~+50°C
Humidity	0~95%(no condensation)
Sea Level(m)	≤1500
Noise(dB)	<40dB(1 meter)
Working Temperature	-10°C~+50°C
LxWxH(products size)	L520xW360xH220mm

SOLAR BALCONY SYSTEM

DIT



EASY
to install

EUROPE
GERMANY
standard
1000w



Model	PMS-1000-1
PV String Input Data (DC)	
Recommended Single PV Module Power (W)	270~550
Maximum Input Voltage (V)	60
Maximum Input Current(A)	20
Starting Voltage (V)	22
DC Connector Quantity	1
DC Connector Model	MC4
Output Parameters(AC)	
Rated Output Power (VA)	1000
Maximum System Efficiency	96%
Rated Output Current (A)	4.35
Rated Output Voltage(V)	230
AC Working Voltage Range (V)	180~265
Rated Output Frequency(Hz)	50
Allowed Frequency Range(Hz)	48~52
Voltage Total Harmonic Distortion Rate	<3%
AC Connection Method	Single Phase
Standby Power Consumption (W)	<3
Institutional Parameters	
Ingress Protection	IP67
Warranty (Year)	10
Service Life (Year)	15
Product Size(mm)	239.8*207.9*58
Product Weight (Kg)	2.8
Communication Method	
Communication Method (Optional)	-
Working Environment	
Cooling Method	Natural Heat Dissipation
WorkingTemperature(C)	-40~+65
Certification	
Targeted Market	Asia, Africa and Latin America
Certification Standards	IEC 62109-1,IEC 62109-2

Battery Model	SGCS-4820
Nominal Energy	960 Wh
Nominal Battery Voltage	48 Vdc
Nominal Capacity	20 Ah
Max. charge Current	20 A
Max.Discharge Current	20 A
Operation Voltage Range	41.3 Vdc~54.8 Vdc
Operation Temperature	-10°C~+50°C
Humidity	45%-90% RH
Sea Level(m)	≤1500
Noise(dB)	<40dB(1 meter)
Working Temperature	-10°C~+50°C
LxWxH(products size)	L331xW172xH215mm