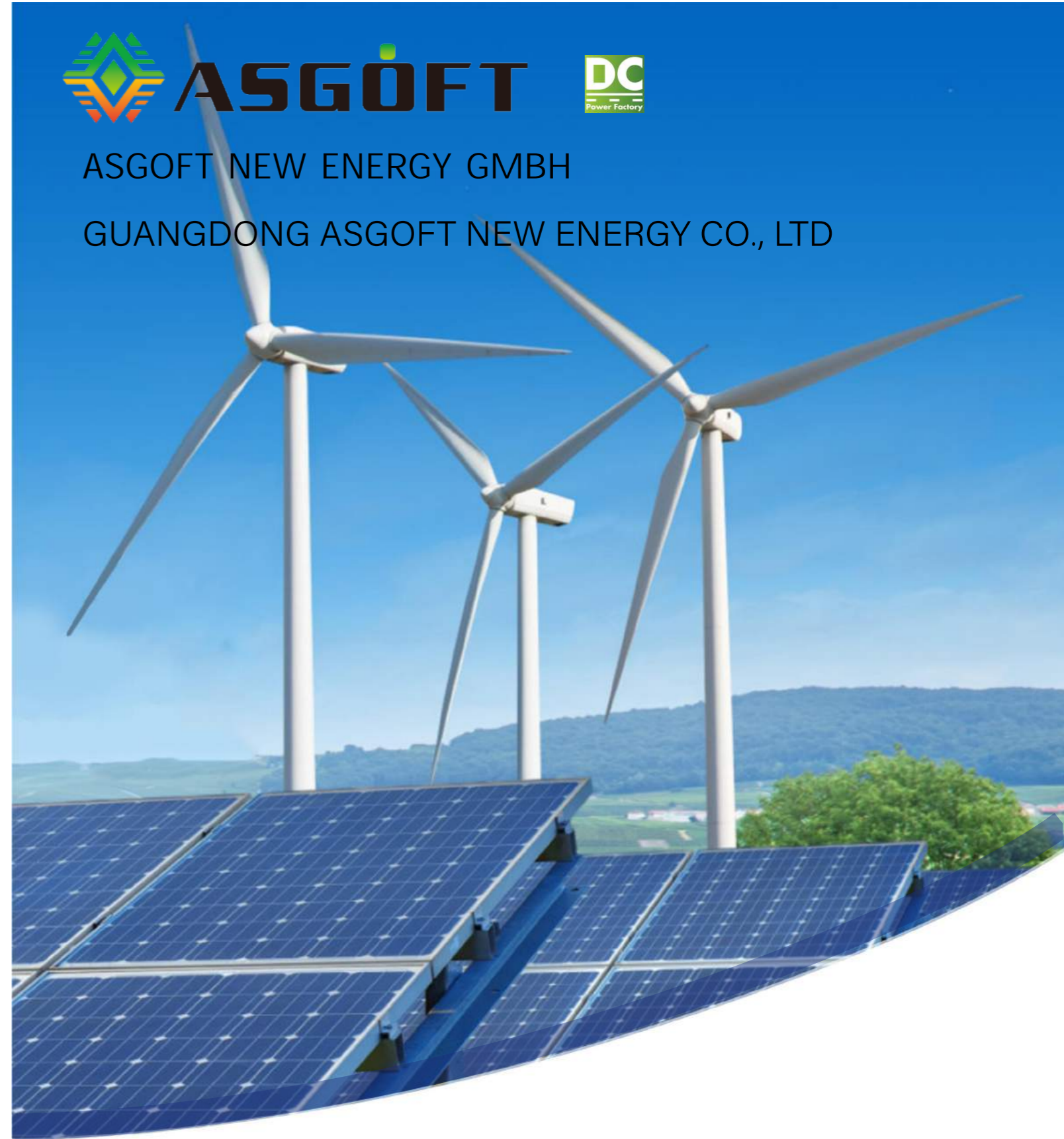




ASGOFT NEW ENERGY GMBH

GUANGDONG ASGOFT NEW ENERGY CO., LTD



ASGOFT NEW ENERGY GMBH
Wandsbeker Allee 77 , 22041 Hamburg, Germany

GUANGDONG ASGOFT NEW ENERGY CO., LTD

Huiyi Building, No. 9 Zhongxin Road, Taoyuan Community, Dalang Street, Longhua District, Shenzhen.

+86-0755-29366186

www.asgoft.de

czp@pairbest.com

The products have passed the certification of UN38.3, MSDS, CE, RoHs, IEC62619 etc.

The factory has obtained the three major system certifications of ISO9001, ISO14001 and ISO45001.

CONTENTS

01 COMPANY PROFILE

- 01-02 Company Introduction
- 03-06 Company Advantages

02 PRODUCT INTRODUCTION

- 07-10 Household Energy Storage Battery
- 11-16 Rack mounted battery pack
- 17-18 LFP battery container storage system
- 19-24 Industrial and commercial energy storage system
- 25-32 Golf/RVs/AGV/Forklift/Low-Speed Vehicles battery
- 33-36 On/Off grid single phase Inverter





Asgoft New Energy Co., Ltd is a leading high-tech energy solution provider.

With warehouse, showroom, marketing and after-sales team in Germany as Asgoft New Energy GmbH , and with sales and technical center in Shenzhen, China as Guangdong Asgoft New Energy Co., Ltd, it has become a very promising partner to the customers working in the green and sustainable energy industry in Europe and other areas.

The company focus on energy storage, energy supply and solar energy systems, committing to offer the most cost-effective and fit-for-purpose solutions.

It holds strong R&D team, advanced production line, modern production & test equipments and trained sales & service team.

The prodcuts include home, commercial and industrial energy storage system, battery power supply for RV, forklift, AGV, Low speed vehicles, inverters and solar panels for solar system.

The products are certified by MSDS, UN38.3, CE, UL, KC, CB and other international certifications. With providing OEM&ODM service to clients from Europe, Middle East, Africa and etc, the company has gained a lot of high reputations from esteemed clients.

Asgoft New Energy looks forward to your cooperation.





MATURE FACTORY
 ADVANCED PRODUCTION LINES
 MODERN EQUIPMENTS

Smart Battery Management System

Battery communications: The BMS can be communicated via 485/CAN/232 with the terminal systems to achieve stable interaction.

Balancing: The BMS can judge the balancing statement according to the cell condition to improve the consistency.

Insulation monitoring: The BMS can monitor the insulation between battery busbar and the housing to ensure safety.

Battery calculating: The battery SOC is calculated by current integration and static voltage correction to show an accurate data.

Temperature monitoring: The BMS has temperature sampling function which includes battery over temperature protection, low temperature protection, temperature compensation function etc.

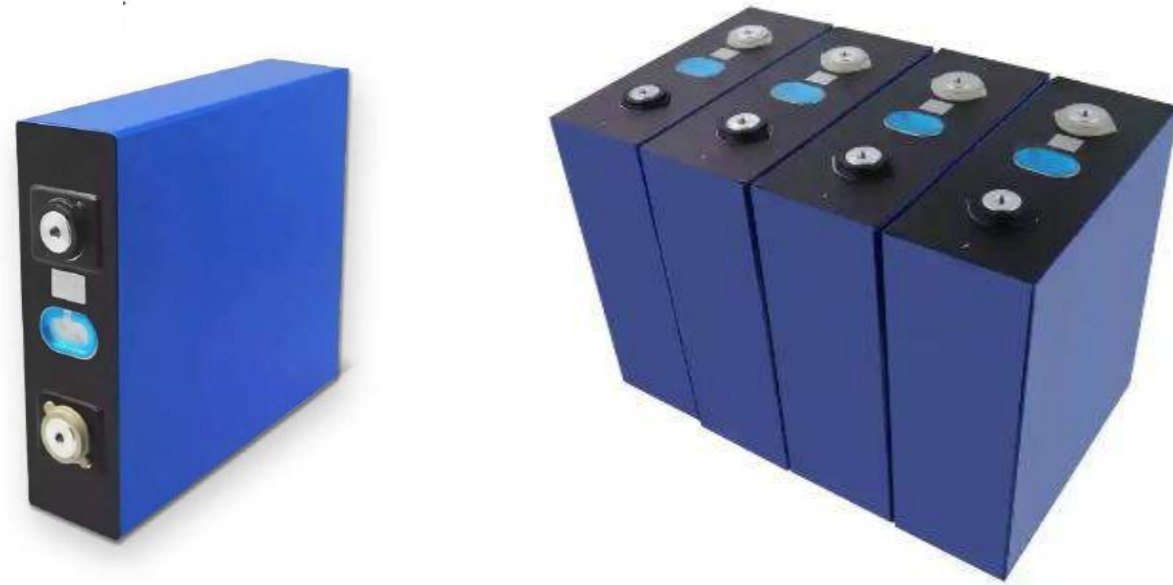
Overcharge protection: When the battery is overcharged, the battery can be protected by BMS to ensure the safety of the charging environment.

Over discharge protection: When the battery is over discharged, the battery can be protected by bms to keep the operating condition in the normal range.

Overcurrent protection: When it is over loaded, the battery can be protected by bms to to keep the operating condition in the normal range.

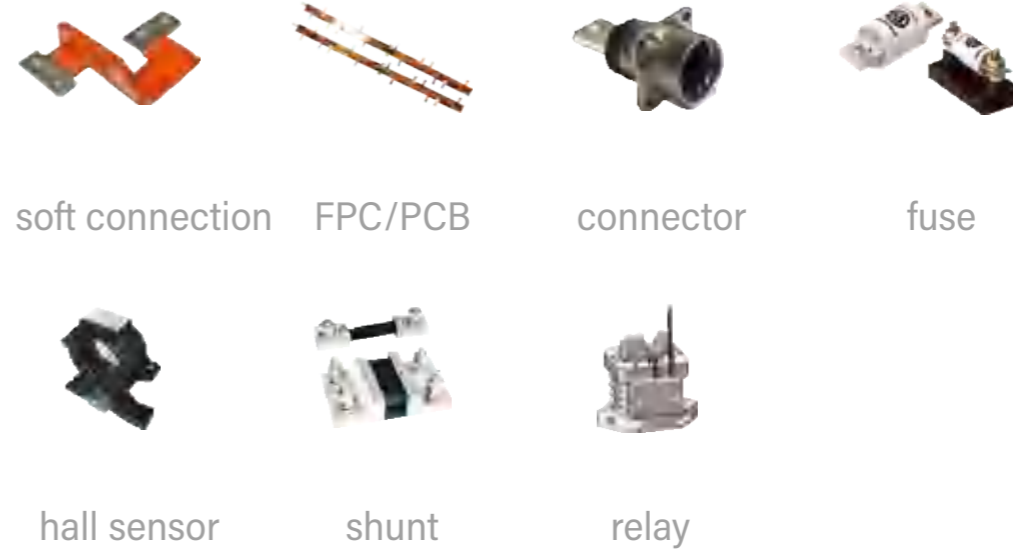
Short circuit protection: When it is short circuited, the battery can be protected by BMS to ensure the safety.

GRADE A CELLS



AUTOMOTIVE-GRADE MATERIALS

Automotive-grade materials make the product performance more stable and reliable



Battery pack design

Use different cell to meet different needs of size, capacity, configuration.

Use different BMS solution to meet different needs of electrical scheme.



WALL MOUNTED HOME ENERGY STORAGE SYSTEM

5.12KWH 51.2V100Ah



PRODUCT FEATURES



Intelligent

- Built in Battery Management System
- LCD touchscreen for easy viewing the battery information



Long life and safety

- High quality LiFePo4, long life span and high safety.



Easy to install and use

- Modular design for easy capacity expansion
- Support wall-mounted installation



Compatibility

- Support various brands of inverter communication protocols

Technical Parameter

Model	ASH-51100
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12KWh
Battery Configuration	16S1P
Display	LCD
Communication	CAN/RS485
BMS	Built-in BMS
Battery Operating temperature	charge: -20°C ~ 55°C
	discharge: -20°C ~ 60°C
Storage Temperature Range	less than 12 months: -10°C ~ 35°C
	less than 3 months: -10°C ~ 45°C
Factory Voltage	50V-53V
Humidity	≤60±25%RH
Allowed Max Charge Current	100A
Limited Charging Voltage	58.4V
Allowed Max Discharge Current	100A
Discharging Cut-off Voltage	44.8V
Cycle Performance	≥4000 times
Unit Dimension (L*W*H)	553*388*160mm
Unit Weight	45 kgs
Warranty	5-10 years(optional)

STACKABLE HOME ENERGY STORAGE BATTERY

14.33KWh 51.2V280Ah



PRODUCT FEATURES



Intelligent

- Built in Battery Management System
It can manage and monitor cell's information including voltage, current and temperature. also can help extend the cycle life by balancing cells during charging and discharging.
- LCD touchscreen for easy viewing



Long life and safety

- High quality LiFePO4, long life span and high safety.



Compatibility

- Support various brands of inverter communication protocols



Easy install and use

- Plug-in embedded design modules, easy install and maintain.

Technical Parameter

Model	ASH-51280
Rated Voltage	51.2V
Rated Capacity	280Ah
Rated Energy	14.33KWh
Battery Configuration	16S1P
Display	LCD
Communication	CAN/RS485
BMS	Built-in BMS
Battery Operating temperature	charge: 0°C ~ 55°C
	discharge: -20°C ~ 55°C
Storage Temperature Range	less than 12 months: -10°C ~ 35°C
	less than 3 months: -10°C ~ 45°C
Factory Voltage	50V-53V
Humidity	≤60±25%RH
Allowed Max Charge Current	200A
Limited Charging Voltage	58.4V
Allowed Max Discharge Current	200A
Discharging Cut-off Voltage	43.2V
Cycle Performance	≥8000 Cycle
Unit Dimension (L*W*H)	532*182*1042mm
Unit Weight	130kg
Warranty	5 years

STACKABLE ENERGY STORAGE BATTERY

15-40KWh

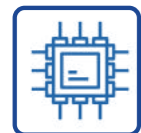


PRODUCT FEATURES



High Voltage

153.6V-409.6V high voltage power, lower current, improve conversion efficiency



Built In BMS

BMS management system, reduce loss of no-load



Cycle life 5000

Cycle life up to 5000 @75% DOD



Flexible Capacity Expansion

15kWh 20kWh 25kWh 30kWh 35kWh 40kWh available



Wide Application

Compatible with most mainstream brands of inverters



EVE Battery

High quality EVE grade A cells

Technical Parameter

Model	ASH-HESS-40
Rated Voltage	409.6V
Rated Capacity	100Ah
Rated Energy	40.96KWh
Battery Configuration	128S1P
Display	LCD
Communication	CAN/RS485
BMS	Built-in BMS
Battery Operating temperature	charge: 0°C ~ 55°C
	discharge: -20°C ~ 60°C
Storage Temperature Range	less than 12 months: -10°C ~ 35°C
	less than 3 months: -10°C ~ 45°C
Factory Voltage	400-420V
Max Discharging Current	50A
Limited Charging Voltage	467.2V
Cycle Performance	5000 cycles
Unit Dimension (L*W*H)	610*386*1075mm
Unit Weight	350Kg±5%
Warranty	5 years

Simple Installation

Wireless connection between modules and high voltage box, no complicated wiring

Low loss

Lower discharge current, improve conversion efficiency

Compact Appearance

Smaller volume and higher cost effectiveness

ENERGY STORAGE RACK BATTERY

50kWh-70kWh 100Ah



PRODUCT FEATURES



Max 15pcs

· Maximum number in series



Compatibility

· Compatible with various brands of inverter communication protocols



Long life and safety

· High quality EVE grade A cells, long life span and high safety.



Easy install and use

· Plug-in embedded design modules, easy install and maintain.
· Multiple battery stacks are allowed to be connected in parallel to expand capacity

Technical Parameter

Model	ASC-HESS-50
Rated Capacity	100Ah
Nominal Voltage	512V
Configuration	160S1P
Cycle Performance	4000
Rated Capacity	100Ah
Factory Voltage	512V-530V
Max Charging Current	50A
Cut-off Charging Voltage	584V
Max Discharging current	50A
Discharge Cut-off voltage	400V
Operation Temperature Range	Charge: 0~55
	Discharge: -20~60
MPPT Operating Voltage	90-450VDC
Module Size	600*600*1750mm
Weight	650kg±5%



Max 15 Pcs

The module adopts 50-75kWh LiFePO4 battery clusters, which can be flexibly expanded with the inverter to meet the demand of 50-750kWh power consumption.

OPTICAL STORAGE MOBILE ENERGY STORAGE POWER

All In One

6kWh 3kW 25.6v 235Ah



Technical Parameter

Model	BESS-ASM-6000WH-3000W
Nominal Voltage	25.6V
Nominal Capacity	235Ah
Energy	6016Wh
Cycle Life	>3000 Cycle @80%DOD, at 25
Communication	RS485/RS232/CAN
Charge Voltage	29.2V
Standard Charge Current	100A
Max Discharge Current	150A
AC Input	170-280VAC 50/60Hz
AC Output	230VAC 50/60Hz
Rated Power	3000W
MAX. PV Array Power	3000W
MPPT Operating Voltage	90-450VDC
Dimension(H*W*D)	610*560*270mm
Weight	Approx. 86.5±0.5kg
Certification	CE/ROHS/UN38.3/MSDS
Warranty	2 years

PRODUCT FEATURES

Intelligent
 · Built in independent battery management system

Compatibility
 · Compatible with various brands of inverter communication protocols

Long life and safety
 · High quality BYD battery, long life span and high safety.

Easy install and use
 · Plug-in embedded design modules, easy install and maintain.
 · Multiple battery stacks are allowed to be connected in parallel to expand capacity



Movable



Smart BMS



High Power



USB Interface



Longer Cycle Life



Auto Reboot After Under-voltage



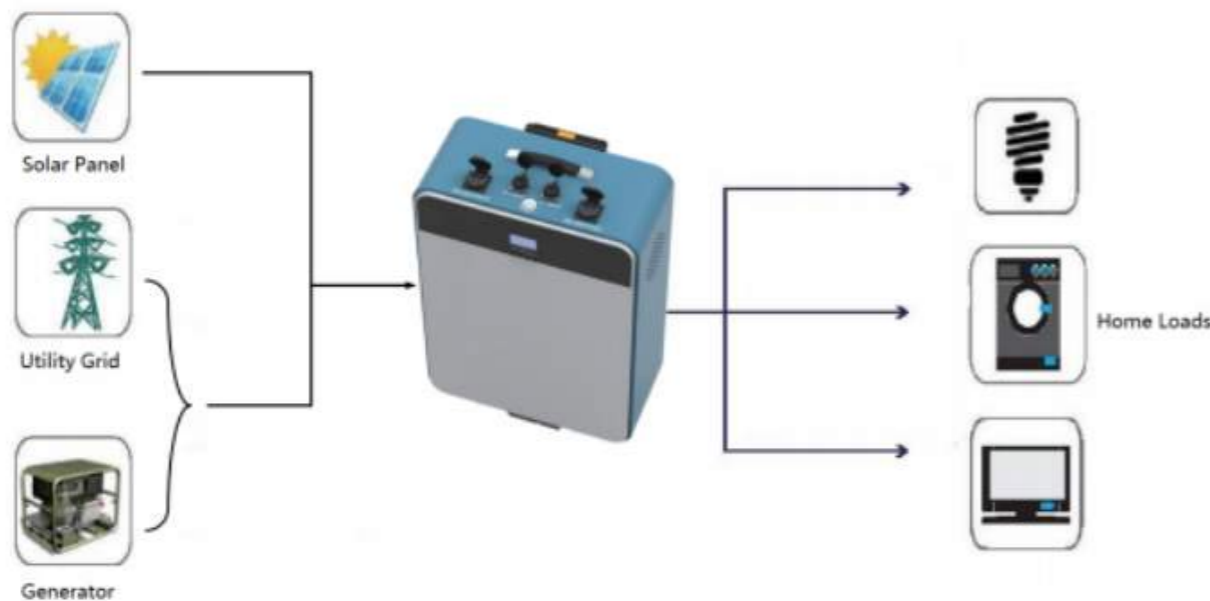
Handle Available



Compatible

MOVEABLE ENERGY STORAGE SYSTEM

All In One
5kWh 51.2V



Technical Parameter

Model	BESS-ASM-5000WH-5000W
Nominal Voltage	51.2V
Voltage Range	45~57.6V
Capacity	5kWh
Max.discharge rate	1C
Max.charge rate	1C
Battery Type	Li-ion (LFP)
Rated Power	5000W
Surge Power	10000VA
Output Voltage	230Vac
Output Current	22A
Rated Frequency	50/60Hz
VTHD	< 3%
Output Wave	Pure Sine Wave
Output Type	Multi-purpose Socketx2
AC Input Voltage Range/AC	170-280VAC
AC Input Frequency/AC	50/60Hz
Max AC Charge Current(Battery) /AC	50A(0~60A Adjustable)
Max. PV Power	4400W
Max. PV Voltage	145
MPPT Range	60~115V
Max PV Charge Current(Battery) /PV	80A
Operating Temperature	0~55
Weight	68kg Approx
Dimension [W x H x D]	510*815*283mm
Communication	WIFI/RS485(Optional)
Warranty	2 years

Balcony Solar Power Station

1.024kWh-5.12kWh

Low Voltage



Project Description		Technical Specifications	Remark
Mainframe	Product Model	ASE-1000	
	Capacity	1024 Wh	
	Dimensions (L*W*H)	12.99*8.27*7.68(in)/ 330*210*195(mm)	Single Module
	Weight	20.94lbs/9.5Kg	
	Battery Type	LiFePO4	
	Cycle Life	6000 cycles, remaining capacity ≥ 70%	
	Maximum Input Power	1200W	600W*2
	Maximum Output Power	800W	Compliant with EU Standards
	Input Voltage Range	18-55V	
	Maximum Input Current	15A	Single Channel
	Output Voltage Range	20-50V	
	Maximum Number of Batteries that can be Connected in Parallel	5	
	Maximum Expandable Capacity	5120Wh	
	Protection Level	IP65	
	Charging Temperature	0-45℃	
Discharging Temperature	-10-45℃		
Protection	Overcharge, Overdischarge, Overcurrent, High Temperature, Low Temperature, Short	Support	
Others	WiFi Module	Support	
	Balancing Mode	Support	
	Communication	CAN	

A portable energy storage power unit that is detachable, modular, and facilitates battery cell replacement.

PRODUCT FEATURES



Safety and IP67

- IP67 protection rating
- LiFePO4 10-year lifespan, 5-year warranty
- Intelligent BMS Control



Smart Monitoring

- Can work with smart terminals for intelligent mode and precise feedback.
- In timed mode, users can customize the device's feeding intervals via the app.



Flexible Expansion

- Single Module 1024Wh, Stackable in Parallel
- Can be paralleled with 5 units, expandable to 5120Wh



Compatibility

- Compatible with 99% of micro-inverter systems, no communication required for pairing, and precise power control."



Rack mounted battery pack

Voltage :51.2V Capacity: 100Ah Type: Rack mounted, supporting parallel connection (up to 16 units)

APPLICATIONS:

It was suitable for power supply such as small capacity access network devices, remote exchange bureau, mobile communication devices, transmission devices, satellite earth station, and microwave communication devices.

ADVANTAGES:

It has the function of central control, it can be monitored in real time through the mobile APP.

SPECIFICATION	
Battery model	AS-48100
Nominal voltage	51.2V
Nominal capacity	100AH
Charge voltage	58.4V
Discharge cut-off voltage	40V
Suggested charge current	≤50A
Suggested discharge current	≤100A
Maximum current	125A(Less than one second)
Life cycle at normal temperature	3000 times
Communication mod	2 RS485 and 1 RS232 CAN
Charge temperature	0~45°C
Discharge temperature	-20~60°C
Model of the interface	Charging port: 2P grid terminal Discharge port: 2P grid terminal
Battery weight	about 42KG
Battery size	W446xT177x(L400-450mm) adjustable



48V600Ah LFP for Commercial Backup Power

APPLICATIONS:

Suitable for commercial office building backup power supply, catering backup power supply, computer room backup power supply etc.

ADVANTAGES:

Small size, large capacity, easy to move, supports up to 10 groups in parallel.

PRODUCT HIGHLIGHTS:

The system has high energy density and high charge-discharge conversion efficiency. The BMS battery management system has multiple protection functions. The system is flexible and reliable, scalable and upgradeable; high modularity, simple structure, easy installation and maintenance.



SPECIFICATION	
Nominal voltage	48V(51.2V Alternative)
Nominal capacity	600Ah
Charge voltage	54.75
Discharge cut-off voltage	37.5V
Suggested charge current	50A~100A
Suggested discharge current	150A
Maximum current	0-20(Self-heating management)
Life cycle at normal temperature	3000 times
Communication mod	RS485 or CAN or RS232
Charge temperature	0~55℃
Discharge temperature	-20~60℃
Model of the interface	ANDERSEN or REMA or TE Or other parts / customized models
Battery weight	About 180KG
Battery size	550X550X1200mm(adj)

48V1000Ah LFP for Commercial Backup Power

APPLICATIONS:

It is suitable for outdoor lighting, power tools, vehicle rescue, emergency and disaster relief, and commercial promotion.

ADVANTAGES:

Small size, large capacity, easy to move, supports up to 5 groups in parallel.

PRODUCT HIGHLIGHTS:

The system has high energy density and high charge-discharge conversion efficiency. The BMS battery management system has multiple protection functions. The system is flexible and reliable, scalable and upgradeable; high modularity, simple structure, easy installation and maintenance.



SPECIFICATION	
Nominal voltage	48V
Nominal capacity	1000Ah
Charge voltage	58.4V
Discharge cut-off voltage	43.2V
Suggested charge current	200A1
Suggested discharge current	00A-200A
Maximum current	500A
Life cycle at normal temperature	3000 times
Communication mod	RS485 or CAN or RS232
Charge temperature	0~55℃
Discharge temperature	-20~60℃
Model of the interface	ANDERSEN or REMA or TE Or other parts / customized models
Battery weight	About 260KG
Battery size	650X650X1650mm(adi)

384V250Ah LFP for High voltage Power

APPLICATIONS:

Industrial machinery and equipment, energy storage power supply for industrial high voltage applications, etc.

ADVANTAGES:

Long life cycles, high energy density, light weight, very safe, eco-friendly.



SPECIFICATION	
Battery model	AS-384250-HV
Nominal voltage	384V
Nominal capacity	250Ah
Charge voltage	438V
Discharge cut-off voltage	300V
Suggested charge current	50A~100A
Suggested discharge current	50A~100A
Maximum current	150A
Life cycle at normal temperature	3000 times
Communication mod	RS485 or CAN or RS232
Charge temperature	0~55°C
Discharge temperature	-20~60°C
Model of the interface	NDERSEN or REMA or TE Or other parts / customized models
Battery weight	About 250KG
Battery size	1400X800X900mm(adj)

576V200Ah LFP for power exchange cabinet

APPLICATIONS:

Industrial machinery and equipment, energy storage power supply for industrial high voltage applications, etc.

ADVANTAGES:

Long life cycles, high energy density, light weight, very safe, ecofriendly.



SPECIFICATION	
Battery model	AS-576200-HV
Nominal voltage	576V
Nominal capacity	200Ah
Charge voltage	657V
Discharge cut-off voltage	450V
Suggested charge current	50A~100A
Suggested discharge current	50A~100A
Maximum current	200A
Life cycle at normal temperature	3000 times
Communication mod	RS485 or CAN or RS232
Charge temperature	0~55°C
Discharge temperature	-20~60°C
Model of the interface	NDERSEN or REMA or TE Or other parts / customized models
Battery weight	About 280KG
Battery size	900X700X1800mm(adj)



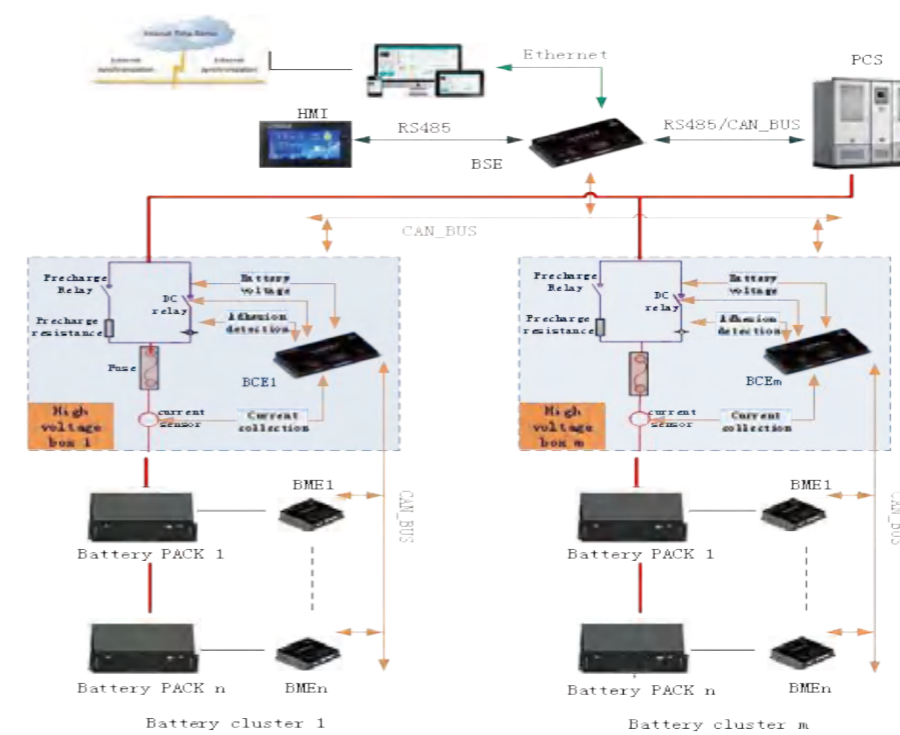
LFP battery container storage system

PRODUCT HIGHLIGHTS:

The container energy storage system includes energy storage battery cluster, battery management system (BMS), gas fire extinguishing system, environmental control system, energy management dispatching system (EMS RTU), two-way converter (PCS) and other supporting equipment. Its main functions are as follows:

1. Energy storage battery cluster: the battery system circuit system composed of several battery module drawers in series and connected with the circuit system is generally composed of monitoring, protection circuit, electrical, communication interface and thermal management device.
2. Battery management system (BMS): the general name of the circuit system used to manage the charging and discharging process of the battery, improve the service life of the battery, and provide users with relevant information. It is composed of BMU, MBMS, BAMS and other management units. Two or three layer architecture can be selected according to the configuration of the energy storage system.
3. Gas fire extinguishing system: mainly to ensure the normal operation of the energy storage system, designed for the potential fault characteristics during battery charging and discharging, to prevent electrical fire accidents inside the container.
4. Environmental control system: mainly composed of precision air conditioner, cold air duct and automatic control system, to provide a suitable temperature and humidity environment for the battery during charging and discharging.
5. Energy management and dispatching system (EMS-RTU): It realizes the monitoring, dispatching and management of the distributed energy storage system, and presents the user with real-time and visual display of the operation status, operation parameters, abnormal alarm events, statistical analysis of system operation costs and benefits. It also supports the control functions such as issuing dispatching instructions to the energy storage system, and creating/modifying operation strategies.

LFP battery container storage system



MODEL	
Rated power	500KW
energy storage capacity	1.228MWh(768V1600Ah)
DC voltage range	571.2V~744.6V
Max continuous charge and discharge rate	0.5C(810A)
Peak magnification	0.7C(900A)
Charge temperature	0~45°C
Discharge temperature	-20-60°C
humidity	70≤RH
Dimensions inside the box	5048*2352*2690mm
Outside dimensions of the box	6048*2438*2896mm



Industrial and commercial energy storage system

Product Highlights:

Asgoft's industrial and commercial energy storage system adopts a cabinet design, consisting of power cabinets and battery cabinets. It has the characteristics of small footprint and flexible configuration. It can be distributed and deployed in various industrial and commercial energy storage application scenarios to realize peak shifting Functions such as dynamic capacity expansion, participation in power grid deployment, and emergency power consumption.

Non-isolated

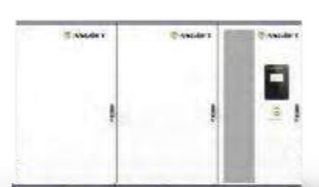
- A: 1 power cabinet + 3 battery cabinets 375kW/645kWh
- B: 1 power cabinet + 2 battery cabinets 250kW/430kWh
- C: 1 power cabinet + 1 battery cabinet 125kW/215kWh

High frequency isolation type

- A: 1 power cabinet + 3 battery cabinets 330kW/capacity optional
- B: 1 power cabinet + 2 battery cabinets 220kW/capacity optional
- C: 1 power cabinet + 1 battery cabinet 110kW/capacity optional



1 power cabinet + 3 Battery cabinets

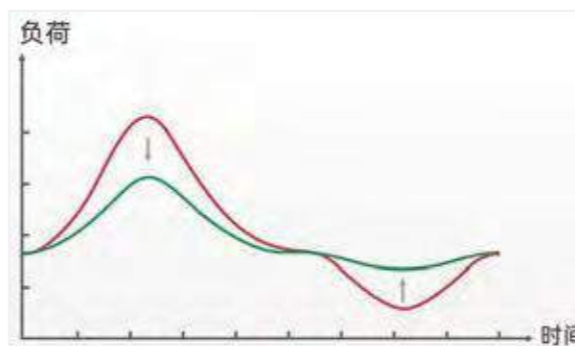


1 power cabinet + 2 Battery cabinets



1 power cabinet + 1 Battery cabinets

Product Features



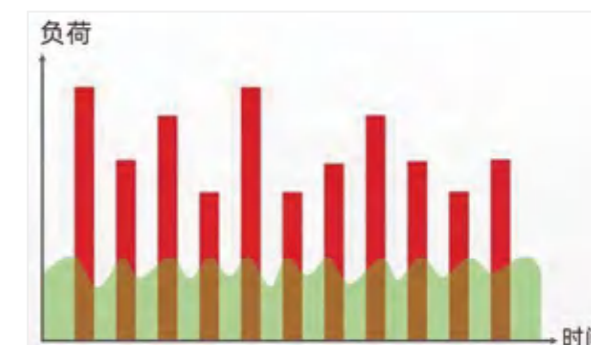
Shaving peaks and filling valleys

For intermittent high-power loads, the energy storage system can balance the load output to achieve dynamic capacity expansion

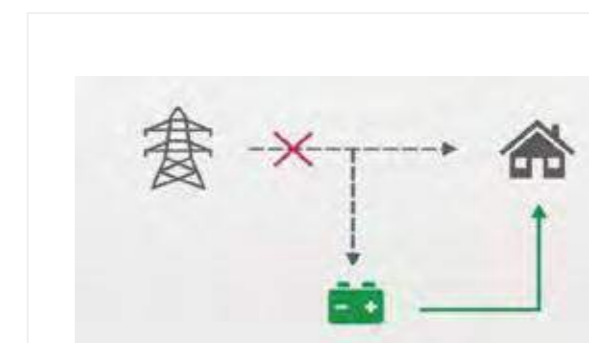


demand management

Reduce peak power and save basic electricity charges
Participate in load- side response and obtain policy subsidies



For intermittent high-power loads, the energy storage system can balance the load output to achieve dynamic capacity expansion



emergency electricity

When the power grid is abnormally interrupted, the energy storage system provides uninterrupted power supply for important loads to avoid economic losses



Energy Storage Power Cabinet

Product Highlights:

The power cabinet is the power conversion part of the energy storage system. It adopts a modular design. Traditional non-isolated PCS or isolated bidirectional power conversion modules with higher safety can be selected according to actual needs, and photovoltaic MPPT can also be selected according to actual application scenarios. Module and configuration system power. The power cabinet is small in size, easy to install, and convenient for distributed deployment.

category	Non-isolated			Isolated		
	ICS375K1KFG	ICS250K1KFG	ICS125K1KFG	IES330K1KFG	IES220K1KFG	IES110K1KFG
environmental conditions						
Operating temperature	- 20°C ~ + 70°C(Derate above 50°C)					
Storage temperature	- 30°C ~ + 60°C					
Relative humidity	≤95%, no condensation					
Altitude	2000m(Derating over 2000 meters)					
Atmospheric pressure	79kPa ~ 106kPa					

category	Non-isolated			Isolated		
	ICS375K1KFG	ICS250K1KFG	ICS125K1KFG	IES330K1KFG	IES220K1KFG	IES110K1KFG
DC parameters						
voltage range	650Vdc-1000Vdc			300Vdc-1000Vdc		
current range	0A-600A	0A-400A	0A-200A	0A-600A	0A-400A	0A-200A
Input channels	3	2	1	3	2	1
AC parameters						
input format	three phase+N+PE			three phase+N+PE		
rated power	375kW	250kW	125kW	330kW	220kW	110kW
Rated voltage	380Vac			380Vac		
rated frequency	50Hz			50Hz		
voltage range	323Vac ~ 437Vac			323Vac ~ 437Vac		
Frequency Range	45Hz ~ 55Hz			45Hz ~ 55Hz		
power factor	≥0.99 (50 ~ 100 Rated output power)			≥0.99 (50 ~ 100 Rated output power)		
current harmonics	≤3% (50 ~ 100 Rated output power)			≤3% (50 ~ 100 Rated output power)		
Active Power Control	meet GB/T 34120 standard requirement			meet GB/T 34120 standard requirement		
Reactive power regulation	meet GB/T 34120 standard requirement			meet GB/T 34120 standard requirement		
power factor control	meet GB/T 34120 standard requirement			meet GB/T 34120 standard requirement		
Power Conversion Module						
Module model	BEG1K0110(non-isolated)			BEG1K075(Isolated)		
Module power	62.5kW			22kW		
number of modules	6	4	2	15	10	5
Protect						
Anti-Islanding Protection	with			with		
AC overcurrent/short circuitprotection	with			with		
AC overvoltage/undervoltageprotection	with			with		
AC over/under frequencyprotection	with			with		
AC incoming line phasesequence error protection	with			with		
Three-phase unbalanceprotection	with			with		
DC overcurrent protection	with			with		
DC overvoltage/undervoltageprotection	with			with		
over temperature protection	with			with		
Communication failureprotection	with			with		
Cooling system failsafe	with			with		
Other parameters						
Maximum rectification efficiency	98.7			95.5		



Energy Storage Battery Cabinet

Product Highlights:

The battery cabinet is the energy storage part of the energy storage system. It uses high-quality lithium iron phosphate batteries, which have long life and high reliability. A single set of energy storage system can be configured with multiple sets of battery cabinets, and each battery cabinet is independently connected to the power conversion module in the power cabinet, without the hidden danger of circulating current. The battery cabinet is small in size, flexible in capacity configuration, and convenient for distributed deployment.

category	IBS215K1KC	IBS200K1KC	IBS186K1KC
environmental conditions			
Operating temperature	- 20°C ~ + 50°C		
Relative humidity	≤95%, no condensation		
Altitude	2000m, 2000mThe above needs to be derated		
Atmospheric pressure	79kPa ~ 106kPa		
Application Scenario	outdoor		
Basic parameters			
Battery Type	Lithium iron phosphate (LPF) /280Ah		
Rated Capacity	215kWh	200kWh	186kWh
Rated voltage	768V	716.8V	665.6V
Working voltage range	672V-864V	627.2V-806.4V	582.4V-748.8V
Battery PACK Quantity	15	14	13
Battery charge and discharge times	≥ 6000 times		
Rated charging current	140A(0.5C, actually follow the system control strategy)		
Rated discharge current	140A(0.5C, actually follow the system control strategy)		
other			
noise	≤70dB		
Fire Fighting System	Heptafluoropropane/active warning		
Degree of protection	IP55		
Temperature control method	Smart air conditioner		
way of communication	CAN		
weight	2544Kg	2431Kg	2320Kg
Dimensions (W*D*H)	1200mm×1150mm×2200mm(Excluding the convex part of the air conditioner) 1200mm×1400mm×2200mm(including air conditioner convex part)		
Can be customized172kWh/157kWh/143kWh/129kWh/114kWh/100kWh, Compatible with isolated power cabinet			



Deye Three Phase

Three Phase Hybrid Inverter

SUN-50K-G03

- 100% unbalanced output, each phase; Max. output up to 50% rated power
- DC couple and AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 100A
- High voltage battery, higher efficiency
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Efficiency

- Max. Efficiency 97.60%
- Euro Efficiency 97.00%
- MPPT Efficiency 99.90%

Noise (dB)

- 65 dB

Warranty

- 5 Years (10 Years Optional)

Cooling

- Smart Cooling

Communication with BMS

- RS485; CAN

Protection Degree

- IP65 Rated Plug

MODEL	SUN-50K-G03
Battery Input Data	
Battery Type	Lithium-ion
Battery Voltage Range (V)	160-800
Max. Charging Current (A)	50+50
Max. Discharging Current (A)	50+50
Number of Battery Input	2
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	65000
Max. DC Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Range (V)	150-850
Full Load DC Voltage Range (V)	450-850
Rated DC Input Voltage (V)	600
PV Input Current (A)	36+36+36+36
No. of MPPT Trackers	4
No. of Strings per MPPT Tracker	2+2+2+2
AC Output Data	
Rated AC Output Active Power (W)	50000
Max AC Output Active Power (W)	55000
AC Output Rated Current (A)	75.8/72.5
Max. AC Output Rated Current (A)	83.4/79.7
Max. Three-phase Unbalanced Output Current (A)	83.3
Max. Continuous AC Passthrough (A)	200
Peak Power (Off Grid)	1.5 time of rated power, 10 S
Generator Input/Smart Load /AC Couple Current (A)	75.8 / 200 / 75.8
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In
Protection	
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection
Over Voltage Category	DC Type II/AC Type III
Certifications and Standards	
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range	-40-60, >45Derating
Cooling	Smart Cooling
Noise (dB)	> 65 dB
Communication with BMS	RS485; CAN
Weight (kg)	80
Cabinet Size (WxHxD mm)	527x894x294 (Excluding Connectors and Brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10 Years Optional)

*Note: The function of Multiple units work in parallel mode will be available in Q1 2023



ASI series

Solar Charger Inverter (parallel operation model)

ASI-5500P



/ Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

/ Safety

- 360 degrees of security from hardware to software
- With EC, SAA, ETL, FCC certification

/ Compatibility

- Support for many types of batteries
- Supports Li-ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power
- Support parallel connection up to 33kw

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive Li-ion battery BMS dual activation
- Single/Three phase output at the same time

MODEL	ASI-5500P	Adjustable
Battery Input		
Battery type	Sealed、Flood、GEL、LFP、Ternary	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maximum Charging Current	100A	√
Battery Voltage Range	40Vdc 60Vdc 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/vervoltage Recovery...)	√
Solar Input		
Maximum PV Open-circuit Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	22A	
Maximum PV Input Power	6000W	
Maximum PV Charging Current	100A	√
AC Input (generator/grid)		
Mains Maximum Charging Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac) ± 2% APL Generator Mode: (90Vac~280Vac) ± 2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	230Vac	√
Rated Output Power	5500VA	
Rated Output Power	5500W	
Peak Power	11000VA	
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz+0.3Hz/60Hz+0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤ 50W Energy-saving Mode: ≤ 25W (Manual Setup)	
General		
Number of parallel/split phases	1-6PCS	
Certificate	CE(IEC62109-1)/CETL(UL 1741 C22.2 NO.1071)/FCC/SAA	
EMC Certification Level	EN61000, C2	
Working Temperature Range	-10°C~55°C	
Storage Temperature Range	-25°C~60 °C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Size(L*W*D)	426mm*322mm*124mm	
Weight	10.5kg	



ASI series

Single Phase On-grid inverter

ASI-5.5K-S



/ Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

/ Safety

- 360 degrees of security from hardware to software
- With EC, SAA, ETL, FCC certification

/ Compatibility

- Support for many types of batteries
- Supports Li-ion battery BMS communication

/ Reliable

- Outputs high-quality pure sine wave AC power

/ User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

/ Intelligent

- Exclusive Li-ion battery RMS dual activation
- Single/Three phase output at the same time

MODEL	ASI-5.5K-S	Adjustable
Battery Input Parameters		
Battery type	Lead-acid Battery or Lithium Battery	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maximum Charging Current	100A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)	√
Solar Input Parameters		
Maximum PV Open-circuit Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	22A	
Maximum PV Input Power	6000W	
Maximum PV Charging Current	100A	√
Mains Input Parameters		
Mains Maximum Charging Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac) ± 2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output Parameter		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	230Vac (200/208/220/240Vac)	√
Rated Output Power	5500VA (4780VA/4970VA/5260VA/5500VA)	
Rated Output Power	5500W (4780W/4970W/5260W/5500W)	
Peak Power	11000VA	
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz+0.3Hz/60Hz+0.3Hz	√
Maximum Efficiency	>90%	
No-load Loss	Non Energy-saving Mode: ≤ 50W Energy-saving Mode: ≤ 25W (Manual Setup)	
Basic Parameters		
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000	
Working Temperature Range	-25°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	0% to 100%	
Waterproof Grade	IP65	
Size(L*W*D)	556mm*345mm*182mm	
Weight	19.2kg	