

2025

Energy Storage system Product Catalog

PV OFF-GRID SYSTEM



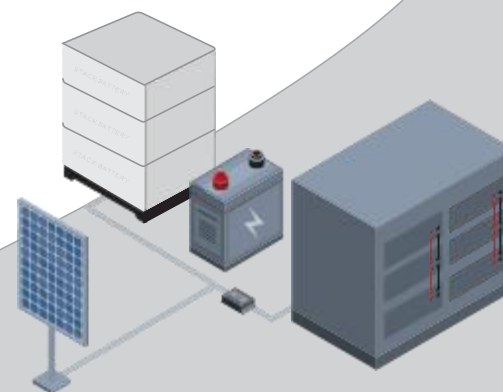
C&I ENERGY STORAGE SYSTEM



PV & ENERGY STORAGE SYSTEM



LITHIUM BATTERY PACK






PORTABLE MOBILE POWER SUPPLY



SOLAR INVERTER



Gird + Solar + ESS + Grid Based System Solution

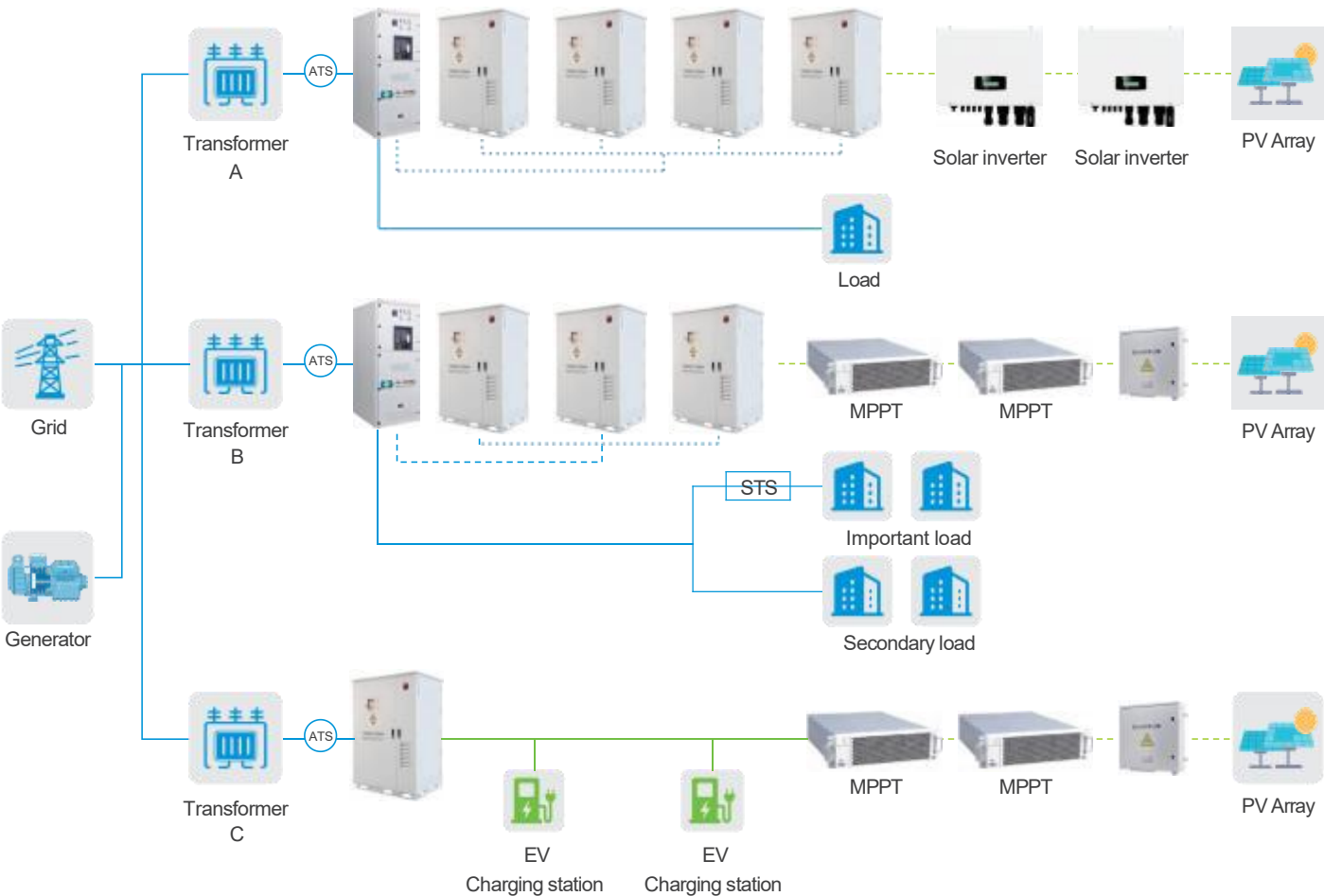
First tier brand , Quality assurance, Safety & reliability   

Flexible deployment, Parallel expansion, independent operation on/off grid

Smart energy management, Refined management of all batteries

Active and passive dual fire warning, PACK & Full container fire protection

PV, ESS, Generator and mains power strategy fully automatic intelligent operation



The grid construction system can connect different power generation equipment, ESS equipment, PV equipment, and load equipment to meet the needs of isolated island PV storage projects, microgrids and various electrical energy projects. The grid construction system can effectively improve the short-circuit capacity and lack of rotational inertia of the power system. The system mainly consists of industrial and commercial energy storage systems, solar inverters/MPPT modules , intelligent control cabinets , STS , EMS , and electrical safety auxiliary systems. Diversified applications in urban power distribution, desert power stations, microgrids, charging stations , emergency backup power stations, communication base stations, and other projects.

Energy storage system parameters	Standard single device	MAX. system configuration
ESS specifications	100kW/215kWh	2.5MW/5MWh
ESS Battery DC voltage	768VDC	1331.2VDC
ESS Battery voltage range	636-846VDC	1040-1500VDC
Cell type	LFP 3.2V/280Ah	LFP 3.2V/314Ah
Single PACK configuration	51.2V280Ah / 1P16S	332.8V314Ah / 1P104S
Number of system PACKs	15PCS	48PCS
Total system power consumption	240S1P/215kWh	416S12P / 5015.9kWh
PCS Power	100kW	5PCS*500kW
Charge discharge rate	≥ 0.5C	
Discharge depth & Battery life	90%DOD >6000 Times(0.5C@25℃)Energy retention rate≥ 80%	
Thermal management method	Intelligent air cooling	
Fire Protection Plan	PACK aerosol /Cabinet aerosol+Perfluorohexane	
Communication method	CAN/Eth/RS485(4G Optional)	
Operating mode	On/off grid	

Photovoltaic parameters (optional with various brands of photovoltaic inverters or MPPT modules)	
MAX. input power of PV	100kW
MPPT voltage range	200-1000V DC
MAX. PV access voltage	1100VDC
Rated input voltage	620VDC
Open circuit voltage	200VDC
PV access	6/12 Ways
PV input current	6*38A
AC Side parameters	
Rated power	100~2500kW
Rated grid voltage	380V AC
Rated grid frequency	50/60Hz ±5Hz
Access method	Communication bottom inlet / 3phase / 3L+N+PE
System usage parameters	
Temperature for use	0℃~+50℃
Environmental humidity for use	0~95%CRH
Storage temperature	-20℃~+60℃
Working altitude	2000m (> 2000m Reduced usage)

All In One + PV+ESS System

First tier brand , Quality assurance, Safety & reliability



Flexible deployment, Parallel expansion, independent operation on/off grid

Smart energy management, Refined management of all batteries

Active and passive dual fire warning, PACK & Full container fire protection

PV, ESS, Generator and mains power strategy fully automatic intelligent operation



PV&ESS All in one system is an integrated PV storage device designed to meet the needs of ESS and PV storage distribution. The equipment has energy-saving, high energy density, fast access to and/or off grid photovoltaics, strong environmental adaptability, small space occupation, and particularly outstanding performance in distribution and storage. The integrated light storage machine consists of a cabinet, air-cooled air conditioning, inverter, BMS, Battery cluster, fire protection system, electrical safety auxiliary system , etc . Diversified applications in optical storage projects and off grid integrated projects.

System specifications	20kW/51.2kWh	30kW/61.44kWh	50kW/107kWh
System battery DC voltage	512V	614V	716V
Battery voltage range	432-576VDC	490-690VDC	582-806VDC
Cell type	LFP 3.2V/100Ah	LFP 3.2V/100Ah	LFP 3.2V/150Ah
Single PACK configuration	102.4V100Ah/10.24kWh	102.4V100Ah/10.24kWh	102.4V150Ah/15.36kWh
Number of system PACKs	5PCS	6PCS	7PCS
Total system capacity	51.2kWh	61.44kWh	107kWh
Rated power of inverter	20kW	30kW	50kW
MAX. PV input power	26kW	39kW	65kW
Charge discharge rate	≥0.5C	≥0.5C	≥0.5C
Thermal management method	Intelligent air cooling		
Discharge depth&Battery life	90%DOD >6000Times(0.5C@25°C)Energy retention rate≥ 80%		
Fire Protection Plan	PACK aerosol /Cabinet aerosol		
Rated grid voltage	380VAC (3L+N+PE)		
Rated grid frequency	50/60Hz ±5Hz		
Communication method	CAN/RS485/WiFi (4G Optional)		
Operating mode	On/off grid		
Access method	Communication bottom inlet / 3phase / 3L+N+PE		
Temperature for use	0°C~+50°C		
Environmental humidity for use	0~95%RH		
storage temperature	-20°C~+60°C		
Working altitude	2000m (> 2000mReduced usage)		
protection grade	IP54		
Product size	1100*1260*1525mm	1100*1260*1725mm	1255*1445*1960mm
Product weight	1100kg	1250kg	2100kg

Air Cooled Energy Storage System



- Flexible deployment, Parallel expansion, independent operation on/off grid
- Smart energy management, Refined management of all batteries
- Active and passive dual fire warning, PACK & Full container fire protection
- PV, ESS, and mains power strategy fully automatic intelligent operation

The integrated system solution meets the requirements of photovoltaic distribution and storage, grid connected/ off grid photovoltaic storage, and other different projects. Featuring high efficiency and energy conservation, high energy density, and small installation space, it is composed of industrial and commercial energy storage systems, inverters, intelligent control cabinets, EMS, and electrical safety auxiliary systems.

ESS specifications	100kW/215kWh
ESS Battery DC voltage	768VDC
ESS Battery voltage range	636-846VDC
Cell type	LFP 3.2V/280Ah
Single PACK configuration	51.2V280Ah / 1P16S
Number of system PACKs	15PCS
Total system power consumption	240S1P/215kWh
PCS power	100kW
Charge discharge rate	≥0.5C
Discharge depth & Battery life	90%DOD >6000Times(0.5C@25℃)Energy retention rate≥80%
Thermal management method	Intelligent air cooling
Fire Protection Plan	PACK aerosol /Cabinet aerosol+Perfluorohexane
Communication method	CAN/Eth/RS485(4G Optional)
Operating mode	On/off grid
Rated power	100kW
Rated grid voltage	380V AC
Rated grid frequency	50/60Hz ±5Hz
Access method	Communication bottom inlet / 3phase / 3L+N+PE
NO. of grid connected ESS	15 PCS
Temperature for use	0℃~+50℃
Environmental humidity for use	0~95%CRH
Storage temperature	-20℃~+60℃
Working altitude	2000m (> 2000m Reduced usage)
Protection grade	IP54
Product size	1550*1295*2186mm
Product weight	2800kg

Vertical Energy Storage Lithium Battery



- Famous brand composition, quality assurance
- Touch screen makes interaction more convenient
- WiFi/Bluetooth, intelligent monitoring provides more peace of mind
- Supports most brands of inverter communication

Household energy storage use high-quality square aluminum-cased lithium iron phosphate batteries and are equipped with intelligent BMS. long life, high safety performance, beautiful appearance, free combination , and easy installation. The battery pack is equipped with a touch LCD display to visualize operating data. Compatible with most brands of photovoltaic inverters and able to communicate with them. It is widely used in distributed photovoltaic systems and home energy storage systems. Provide efficient and clean energy for household, industrial, commercial, agricultural and other electrical equipment.

Technical Parameters

Specifications	51.2V100Ah	51.2V200Ah	51.2V300Ah
Can be combined	3-SETstackable parallel	15PCS parallel	15PCS parallel
Battery pack capacity	5.12kWh	10.24kWh	15.36kWh
Standard discharge current	50A	100A	140A
Maximum discharge current	100A	105A	140A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Maximum charging current	50A	105A	140A
Maximum charging voltage	57.6V	57.6V	57.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%		
Working humidity	65±20%RH		
Operating temperature	0~+40°C		
Working altitude	≤2500m		
Firefighting	Aerosol PACK 12g		
Cooling method	Natural cooling		
Installation method	Vertical installation		
International Protection	IP20		
Warranty	5~10Years		
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)		
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001		
Product Size	370*600*160mm	550*986*170mm	520*820*280mm
Package Size	430*660*220mm	610*1046*230mm	580*880*340mm
Net weight	45kg	85kg	137kg
Gross weight	51kg	105kg	150kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



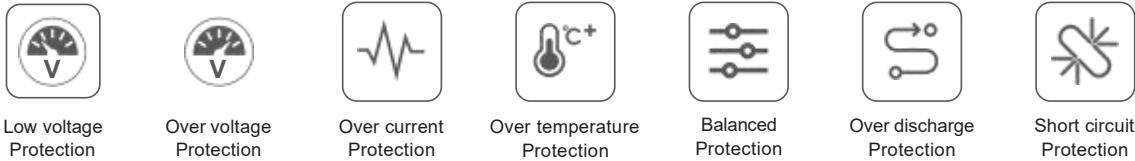
Stacked Energy Storage Lithium Battery



Technical Parameters

Specifications	48V100Ah	51. 2V100Ah
Cell Combination	15S1P	16S1P
Battery pack capacity	4.8kWh	5.12kWh
Standard discharge current	50A	50A
Maximum discharge current	100A	100A
Working voltage range	40.5-54VDC	43.2-57.6VDC
Standard Voltage	48VDC	51.2VDC
Maximum charging current	50A	50A
Maximum charging voltage	54V	57.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%	
Working humidity	65±20%RH	
Operating temperature	0~+40°C	
Working altitude	≤2500m	
Firefighting	Aerosol PACK 12g	
Cooling method	Natural cooling	
Installation method	Stacked installation	
International Protection	IP20	
Warranty	5~10Years	
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)	
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001	
Product Size	520*450*200mm	
Package Size	580*510*260mm	
Net weight	46kg	50kg
Gross weight	51kg	55kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



Power wall Energy Storage Lithium Battery



Wall installation



Touchscreen



Communication



Custom made

Household energy storage use high-quality square aluminum-cased lithium iron phosphate batteries and are equipped with intelligent BMS. long life, high safety performance, beautiful appearance, free combination , and easy installation. The battery pack is equipped with a touch LCD display to visualize operating data. Compatible with most brands of photovoltaic inverters and able to communicate with them. It is widely used in distributed photovoltaic systems and home energy storage systems. Provide efficient and clean energy for household, industrial, commercial, agricultural and other electrical equipment.

Technical Parameters

Specification	25.6V100Ah	51. 2V50Ah	48V100Ah	51. 2V100Ah	48V200Ah	51. 2V200Ah
Cell Combination	8S1P	16S1P	15S1P	16S1P	15S1P	16S1P
Battery pack capacity	2.56kWh	2.56kWh	4.8kWh	5.12kWh	9.6kWh	10.24kWh
Standard discharge current	50A	50A	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A	105A	105A
Working voltage range	20-29.2VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	40. 5-54VDC	43.2-57.6VDC
Standard Voltage	25.6VDC	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC
Max. charging current	100A	50A	50A	50A	105A	105A
Max. charging voltage	29.2V	57.6V	54V	57.6V	54V	57.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	0~+40°C					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Wall mounting					
International Protection	IP20					
Max of parallel	15PCS					
Warranty	5~10Years					
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					
Product Size	440*460*170mm		440*585*170mm		540*800*170mm	
Package Size	500*520*230mm		500*630*240mm		600*860*230mm	
Net weight	26.5kg	30kg	42kg	46kg	80kg	85kg
Gross weight	32kg	36kg	50kg	54kg	86kg	92kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



Low voltage Protection



Over voltage Protection



Over current Protection



Over temperature Protection



Balanced Protection



Over discharge Protection



Short circuit Protection

Rack/Cabinet Energy Storage Lithium Battery

4U

Standard

Free combination

MAX 15PCS

Parallel

Communication

Custom made



Rack installation



Cabinet installation



Technical Parameters

Specification	51.2V50Ah	48V100Ah	51.2V100Ah	48V200Ah	51.2V200Ah	51.2V280Ah
Cell Combination	16S1P	15S1P	16S1P	15S1P	16S1P	16S1P
Battery pack capacity	2.56kWh	4.8kWh	5.12kWh	9.6kWh	10.24kWh	14.336kWh
Standard discharge current	25A	50A	50A	50A	50A	140A
Max. discharge current	50A	100A	100A	100A	100A	140A
Working voltage range	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	40.5-54VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	48VDC	51.2VDC	48VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	100A	100A	140A
Max. charging voltage	57.6V	54V	57.6V	54V	57.6V	57.6V
Discharge depth and life	>6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	0~+40°C					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Cabinet/Rack Mount					
International Protection	IP20					
Max of parallel	15PCS					
Warranty	5~10Years					
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					
Product Size	440*484*88mm	440*484*178mm		440*796*178mm		405*750*230mm
Package Size	500*555*130mm	555*500*235mm		570*1010*365mm		465*810*290mm
Net weight	27kg	41kg	45kg	74kg	78kg	105kg
Gross weight	32kg	49kg	55kg	86kg	90 kg	115kg

*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services

Low voltage Protection

Over voltage Protection

Over current Protection

Over temperature Protection


Balanced Protection


Over discharge Protection


Short circuit Protection


High Voltage Energy Storage Lithium Battery

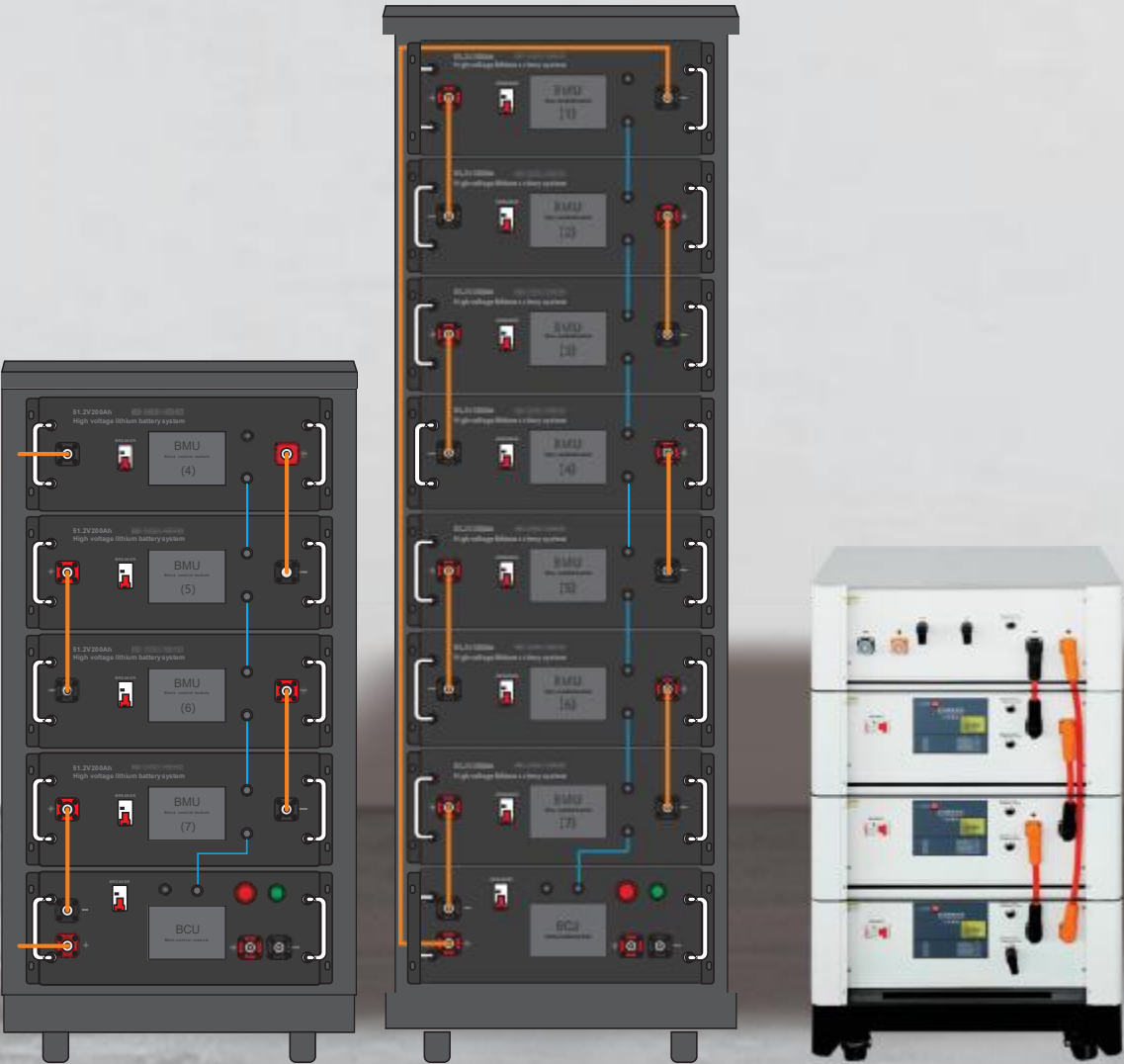
96/144/192/240/384/512/768/1500V


Master-slave
Control


High voltage


Communication


Custom made




High voltage solution supports custom stack form factors




Technical Parameters

Specification	96V100Ah	144V100Ah	192V100Ah	240V100Ah	384V280Ah	512V280Ah
Battery pack capacity	9.6kWh	14.4kWh	19.2kWh	24kWh	107kWh	143kWh
Standard discharge current	50A~300A(Customer customize)					
Max. discharge current	50A~300A(Customer customize)					
Working voltage range	81-108VDC	121-162VDC	162-216VDC	202-270VDC	324-432VDC	432-576VDC
Standard Voltage	96V	144V	192V	240V	384V	512V
Max. charging current	100A~300A(Customer customize)					
Max. charging voltage	81~864V					
Discharge depth and life	> 6000 times (0.5C@25°C) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	-10°C+50°C					
Working altitude	≤2500m					
Firefighting	Aerosol PACK 12g					
Cooling method	Natural cooling					
Installation method	Cabinet/Rack/Stacked Mount					
International Protection	IP20					
Warranty	5~10 Years					
Communication method	Default: RS485/RS232/CAN(Optional WiFi/4G/Bluetooth)					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					


*Customized different brands of cell and different voltage, capacity, dimensions/color , OEM/ODM services



Low voltage
Protection



Over voltage
Protection


Over current
Protection



Over temperature
Protection


Balanced
Protection



Over discharge
Protection


Short circuit
Protection


Replace GEL Battery Lithium Battery




Quick replacement



Optional Coulomb meter



Optional Bluetooth



Optional GPRS



This series adopts high-quality lithium iron phosphate batteries, equipped with intelligent BMS , long cycle life, high safety , beautiful appearance, free combination and convenient installation. LCD display, visualization of battery operating data. Compatible with most solar inverter, providing efficient energy for solar off-grid households, commercial and other electrical equipment.

Technical Parameters

Specification	12V8Ah	12V15Ah	12V50Ah	12V100Ah	12V125Ah	12V200Ah
Capacity	102Wh	256Wh	640Wh	1.28kWh	1.6kWh	2.56kWh
Standard discharge current	4A	10A	25A	50A	100A	100A
Max. discharge current	8A	20A	50A	100A	100A	100A
Working voltage range	10-14.6V					
Standard Voltage	12.8V					
Max. charging voltage	14.6V					
Max of parallel	4PCS					
Max of series connection	4PCS					
Product Size	152* 65*98mm	265*70*90mm	255*165*215mm	255*165*215mm	480*165*240mm	515*235*225mm
Net weight	1.2kg	4.5kg	9kg	16kg	28Kg	45Kg

Specification	24V50Ah	24V125Ah	24V150Ah	24V100Ah	24V200Ah	24V280Ah
Capacity	1.28kWh	3.2kWh	3.84kWh	2.56kWh	5.12kWh	7.16kWh
Standard discharge current	25A	50A	50A	50A	100A	140A
Max. discharge current	50A	100A	100A	100A	100A	140A
Working voltage range	20-29.2V					
Standard Voltage	25.6V					
Max. charging voltage	29.2V					
Max of parallel	2PCS					
Max of series connection	2PCS					
Product Size	305*165*215mm	480*165*240mm	480*165*240mm	480*165*240mm	535*245*220mm	380*320*260mm
Net weight	17kg	23kg	25kg	30kg	40kg	46kg
Discharge depth and life	>6000 times (0.5C@25℃) Energy retention rate ≥80%					
Working humidity	65±20%RH					
Operating temperature	0℃+40℃					
Working altitude	≤2500m					
Cooling method	Natural cooling					
International Protection	IP65					
Warranty	5~10 Years					
Communication method	Optional RS485/GPRS/Bluetooth					
Certified product	CE ROHS FCC UN38.3 MSDS ISO9001					

L-ESS

Vertical Lithium Battery Energy Storage System



Li-FePO₄



3-8KW
Out put



APP
Control



Customized
High/low voltage



Customized
capacity



ESS series is a high-performance energy storage system independently developed by us. It uses high-quality lithium iron phosphate batteries and is equipped with an intelligent BMS . It has long cycle life, high safety , and good sealing; High-frequency off-grid solar inverter, built-in MPPT controller, can provide efficient and reliable energy solutions for solar off-grid power generation systems, household solar storage systems, and industrial and commercial energy storage systems.

The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the battery pack, monitors the system operating data in realtime, and quickly enters the troubleshooting work when the system fails, so as to restore the effective power supply more efficiently.

Technical Parameters

System Capacity	10.24kWh/5kW	15.36kWh/8kW	20.48kWh/11kW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V
Rated solar input voltage	360VDC		
MPPT tracking voltage range	120V-450V		
Max input voltage (VOC) at lowest temperature	500V		
Max input power	5500W	5500W+5500W	
Number of MPPT tracking paths	1 path	2 paths	
DC input voltage range	42-60VDC		
Rated mains power input voltage	220VAC/230VAC/240VAC		
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)		
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)		
Inverter output efficiency	94%(MAX)		
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)		
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)		
Inverter output waveform	Pure sine wave		
Grid output efficiency	>99%		
Max mains charging current	60A		
Max solar charging current	100A		
Max charging current (Grid+solar)	100A		
Optional mode	Grid priority/Solar priority/Battery priority		

S-ESS

Stacked Lithium Battery Energy Storage System



Li-FePO₄



3-8KW
Out put



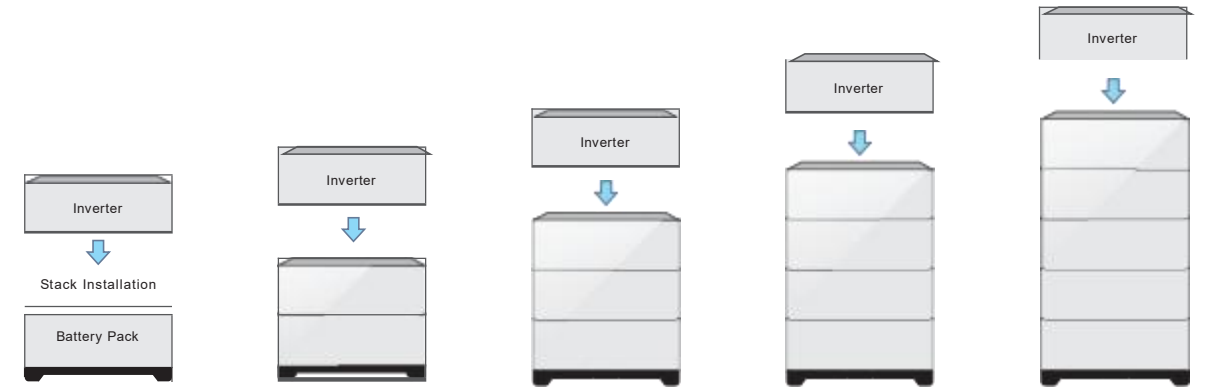
APP
Control



Customized
High/low voltage



Customized
capacity



Technical Parameters

System Capacity	10.24kWh/5kW	15.36kWh/8kW	20.48kWh/11kW
Standard discharge current	50A	50A	50A
Max. discharge current	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V
Rated solar input voltage	360VDC		
MPPT tracking voltage range	120V-450V		
Max input voltage (VOC) at lowest temperature	500V		
Max input power	5500W	5500W+5500W	
Number of MPPT tracking paths	1 path	2 paths	
DC input voltage range	42-60VDC		
Rated mains power input voltage	220VAC/230VAC/240VAC		
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)		
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)		
Inverter output efficiency	94%(MAX)		
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)		
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)		
Inverter output waveform	Pure sine wave		
Grid output efficiency	>99%		
Max mains charging current	60A		
Max solar charging current	100A		
Max charging current (Grid+solar)	100A		
Optional mode	Grid priority/Solar priority/Battery priority		

C-ESS

Rack/Cabinet Lithium Battery Energy Storage System



Li-FePO₄



3-8KW
Out put



APP
Control



Customized
High/low voltage



Customized
capacity



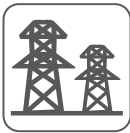
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The system is equipped with a self-developed APP, supports IOS/Android mobile phones, remotely controls the charging and discharging of the battery pack, monitors the system operating data in realtime, and quickly enters the troubleshooting work when the system fails, so as to restore the effective power supply more efficiently.

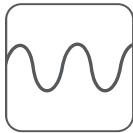
Technical Parameters

System Capacity	5.12kWh/5kW	10.24kWh/5kW	15.36kWh/8kW	20.48kWh/11kW
Standard discharge current	50A	50A	50A	50A
Max. discharge current	100A	100A	100A	100A
Working voltage range	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC	43.2-57.6VDC
Standard Voltage	51.2VDC	51.2VDC	51.2VDC	51.2VDC
Max. charging current	50A	50A	50A	50A
Max. charging voltage	57.6V	57.6V	57.6V	57.6V
Rated solar input voltage	360VDC			
MPPT tracking voltage range	120V-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	5500W		5500W+5500W	
Number of MPPT tracking paths	1 path		2 paths	
DC input voltage range	42-60VDC			
Rated mains power input voltage	220VAC/230VAC/240VAC			
Grid power input voltage range	170VAC~280VAC (UPS mode) / 120VAC~280VAC (Inverter mode)			
Grid input frequency range	45Hz~55Hz (50Hz); 55Hz~65Hz (60Hz)			
Inverter output efficiency	94%(MAX)			
Inverter output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter mode)			
Inverter output frequency	50Hz±0.5 or 60Hz±0.5(Inverter mode)			
Inverter output waveform	Pure sine wave			
Grid output efficiency	>99%			
Max mains charging current	60A			
Max solar charging current	100A			
Max charging current (Grid+solar)	100A			
Optional mode	Grid priority/Solar priority/Battery priority			

On/off-Grid Hybrid Inverter



On/off-grid



Pure Sine Wave



MPPT



Communication



On/off-grid inverter has the function of segmented charging and discharging,backflow prevention and grid connection function.working without battery under special conditions.lithium battery activation function, which can be triggered by mains or solar.4 charging modes: solar only, mains priority, solar priority and solar&mains hybrid charging.2 output modes: mains bypass and inverter output, with UPS function.Adopting full-digital double closed loop control, combined with advanced SPWM.Advanced MPPT technology with efficiency of 99.9%.LCD screen and can clearly indicate the status and data.Intelligent and variable-speed fan, efficiently dissipate heat and extend system life.Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and so on.

Technical Parameters

Rated power	6000W
Standard battery voltage	Lead-acid Battery or Lithium Battery 48VDC
Battery voltage range	40 VDC~60 VDC ± 0.6 VDC(Undervoltage/Shutdown Voltage/Overvoltage /Overvoltage Recovery Warning)
Hybrid charging MAX. charging current	100A
Installation method	Wall mount
Solar input parameters	
max. solar open-circuit voltage	500 VDC
Solar working voltage range	120-500VDC
MPPT voltage range	120-450VDC
MAX. solar input current	22A
MAX. solar input power	6000W
MAX. solar charging current	100A
Ac input parameters	
Mains max charging current	60A
Rated input voltage	220/260VAC
Input voltage range	UPS Mains Mode: (170VAC~280VAC)±2% APL Generator Mode: (90VAC-280VAC)±2%
Frequency	50 Hz/ 60 Hz (Automatic Detection)
Mains charging efficiency	> 95%
Switch time (bypass and inverter)	10ms(Typical Value)
Max. bypass overload current	40A
AC output parameters	
Output waveform	Pure Sine Wave
Rated output voltage(VAC)	230VAC 200/208/220/240VAC
Rated output power(VA)	6600VA
Rated output powe(W)	6000W
Peak power	11000W(1~3s)
On-load motor capacity	4HP
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz
Max. efficiency	>90%
No-load loss	Non Energy-saving Mode: ≤50W Energy-saving Mode:≤25W (Manual Setup)
Basic parameters	
Working temperature range	-25° C ~ 55° C
Storage temperature range	-25° C ~ 60° C
Humidity range	0~100%
Waterproof grade	IP65
Product size	556*345*182mm
Product weight	19.2kg

Three Phase Off-grid Inverter



3 phase output



Pure Sine Wave



MPPT



Communication

Lithium battery
Communication



Three-phase off-grid inverter has the function of segmented charging and discharging,working without battery under special conditions.lithium battery activation function, which can be triggered by mains or solar.4 charging modes: Solar Only, Mains Priority, Solar Priority and Solar&Mains hybrid charging.2 output modes: mains bypass and inverter output, with UPS function.Adopting full-digital double closed loop control, combined with advanced SPWM.Advanced MPPT technology with efficiency of 99.9%.LCD screen and three LED lights can clearly indicate the status and data.Intelligent and variable-speed fan, efficiently dissipate heat and extend system life.Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and so on.

Product basic parameters			
Rated output power	8000W	10000W	12000W
Maximum peak power	16000W	20000W	24000W
Rated output voltage	400Vac(3L+N)		
Load motor capacity	5HP	6HP	6HP
Rated frequency	50/60Hz		
Output waveform	Pure sine wave		
Switching Time	10ms(Typical)		
Battery Type	Lithium-ion battery pack/Lead-acid battery/Customized		
Rated battery voltage	48VDC		
Voltage range	48VDC~60VDC ± 0.6VDC(Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery...)		
MAX. Soalr charging current	180A	220A	260A
MAX. mains charging current	100A	120A	120A
MAX. hybrid charging current	180A	220A	260A
Solar parameters			
Number of MPPT	2 Path		
MAX. input power	6000W+6000W	7500W+7500W	9000W+9000W
MAX. input current	22A+22A		
MAX. open circuit voltage	800VDC+800VDC		
MPPT operating voltage range	200~600VDC		
AC Mains/Generator parameters			
Input voltage range	Phase voltage170~280V Line voltage305~485V		
Input frequency range	50/60Hz		
Bypass overload current	63A		
Inverter efficiency			
MPPT tracking efficiency	99.9%		
Battery inverter MAX. efficiency	≥92%		
Communication method			
Built-in interface	RS485 / CAN / USB / Dry contact		
External module (optional)	Wi-Fi / GPRS		
Basic parameters			
Product size	620*445*130mm		
Product weight	27kg		
Protection level	IP20 Only supports indoor installation		
Ambient temperature	-10~55°C, >45°C Derate		
Noise	<60dB		
Cooling method	Air cooling		

Rack/Cabinet Hybrid Inverter

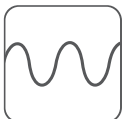


Product basic parameters				
Rated power	3200W	5500W	8000W	
Standard voltage	24VDC	48VDC		
Installation	Cabinet/rack installation			
Solar parameter				
Working model	MPPT			
Rated solar input voltage	360VDC			
MPPT tracking voltage range	120-450V			
Max input voltage (VOC) at lowest temperature	500V			
Max input power	4000W	6000W	8000W	
Number of MPPT tracking paths	1 Path		2 Path	
INPUT				
DC input voltage range	21-30VDC		42-60VDC	
Rated mains power input voltage	220/230/240VAC			
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)			
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)			
OUTPUT				
Inverter	Output efficiency	94%		
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)		
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)		
Grid	Output efficiency	≥99%		
	Output voltage range	Following input		
	Output frequency range	Following input		
Battery mode no-load loss		≤1%(At rated power)		
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)		
Battery				
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)		
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)		
Max mains charging current		60A	80A	
Max solar charging current		100A	150A	
Max charging current(Grid+solar)		100A	150A	
Charging method		Three-stage (constant current, constant voltage, float charge)		
Protected mode				
Battery low voltage range		Battery low voltage protection value +0.5V (Single battery voltage)		
Battery voltage protection		Factory default: 10.5V (Single battery voltage)		
Battery over voltage alarm		Equal charging voltage +0.8V (Single battery voltage)		
Battery over voltage protection		Factory default: 17V (Single battery voltage)		
Battery over voltage recovery Voltage		Battery over voltage protection value -1V (Single battery voltage)		
Overload /short circuit protection		Automatic protection (battery mode), circuit breaker or fuse (Grid mode)		
Temperature protection		≥90℃ off output		
Performance parameters				
Conversion time		≤4ms		
Cooling method		Intelligent cooling fan		
Working temperature		-10~40℃		
Storage temperature		-15~60℃		
Altitude		2000m(>2000m altitude need derating)		
Humidity		0~95% (No condensation)		
Product Size		440*484*178mm	440*484*220mm	
Package Size		555*500*235mm	555*500*255mm	
Net weight		8.5kg	9.5kg	17kg 19kg
Gross weight		9.5kg	10.5kg	19kg 21kg

Wall-mount Hybrid Inverter



Single phase
output



Pure Sine Wave



MPPT



Communication



Product basic parameters

Rated power	3200W	5500W	6200W	8000W	11000W
Standard voltage	24VDC	48VDC			
Installation	Wall mount installation				

Solar parameter

Working model	MPPT				
Rated solar input voltage	360VDC				
MPPT tracking voltage range	120-450V				
Max input voltage (VOC) at lowest temperature	500V				
Max input power	3200W	5500W	6200W	8000W	11000W
Number of MPPT tracking paths	1 Path			2 Path	

INPUT

DC input voltage range	21-30VDC	42-60VDC
Rated mains power input voltage	220/230/240VAC	
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	

OUTPUT

Inverter	Output efficiency	94%
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
Grid	Output efficiency	≥99%
	Output voltage range	Following input
	Output frequency range	Following input
Battery mode no-load loss		≤1%(At rated power)
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)

Battery

Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)	
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)	
Max mains charging current		60A	80A
Max solar charging current		100A	150A
Max charging current(Grid+solar)		100A	150A
Charging method		Three-stage (constant current, constant voltage, float charge)	

Protected mode

Battery low voltage range	Battery low voltage protection value +0.5V (Single battery voltage)
Battery voltage protection	Factory default: 10.5V (Single battery voltage)
Battery over voltage alarm	Equal charging voltage +0.8V (Single battery voltage)
Battery over voltage protection	Factory default: 17V (Single battery voltage)
Battery over voltage recovery Voltage	Battery over voltage protection value -1V (Single battery voltage)
Overload /short circuit protection	Automatic protection (battery mode), circuit breaker or fuse (Grid mode)
Temperature protection	≥90℃ off output

Performance parameters

Conversion time	≤ 4 ms		
Cooling method	Intelligent cooling fan		
Working temperature	-10~40℃		
Storage temperature	-15~60℃		
Altitude	2000m(> 2000m altitude need derating)		
Humidity	0~95% (No condensation)		
Product Size	420 *290 *110mm	460 *304 *110mm	520 *450 *200mm
Package Size	486 *370 *198mm	526 *384 *198mm	580 *510 *260mm
Net weight	8.5kg	9.5kg	17kg
Gross weight	9.5kg	10.5kg	19kg

Small Pure Sine Wave Inverter



Pure sine wave



Remote switch



Socket customization



Voltage customization



Technical Parameters

Specification		300W	500W	1000W	1500W	2000W	2500W	3000W
Input	Input voltage	12/24/48VDC						
	12V DC	10~15.5VDC						
	24V DC	20~31VDC						
	48V DC	40~62VDC						
	Efficiency	>90%						
Output	Output voltage	100/110/120VAC or 220/230/240VAC						
	Rated power	300W	500W	1000W	1500W	2000W	2500W	3000W
	Instant power	600W	1000W	2000W	3000W	4000W	5000W	6000W
	Output waveform	Pure sine wave						
	Output frequency	50Hz or 60Hz						
	USB output	5V,1A						
	Waveform	≤3%						
Operating temperature		-10℃ ~ +50℃						
Humidity		20%~90%RH						
Storage temperature		-30℃ ~+70℃						
Machine size (mm)		212*142*65	242*142*65	318*189*81	343*189*81	371*235*97	405*235*97	426*235*97
Net weight (kg)		0.8	1.0	2.1	2.3	3.7	4.5	5.1
Gross weight (kg)		1.0	1.2	2.5	3	4.5	5.3	6.1
Inner box size (mm)		275*160*115	295*160*115	400*230*150	440*230*140	490*290*180	490*290*180	490*290*165
Packing quantity (only)		10	10	4	4	2	2	2
Weight (kg)		11.05	12.76	10.87	12.72	9.53	11.21	12.81
Packing size (mm)		620*290*350	630*310*350	480*430*310	480*450*310	510*310*380	510*310*380	510*310*380
Packing volume (m³)		0.0629	0.0684	0.0640	0.0670	0.0601	0.0601	0.0601

Protection



Low voltage Protection



Over voltage Protection



Over current Protection



Over temperature Protection



Balanced Protection



Over discharge Protection



Short circuit Protection

Customized sockets



Multifunction



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France



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Japan



SouthAfrica

Portable Outdoor Power Supply

600W 576Wh



Portable mobile power supply is a portable energy storage power supply that integrates multiple functions. It has built-in high-performance A-grade lithium iron phosphate batteries, high-quality BMS management system, and high-efficiency inverter conversion circuit. It can be used as a home, office, outdoor camping and emergency backup power supply. Mains or solar power available charging, can provide rated 220V/ 600WAC output, 5V/12V DC output, USB output, Type C, wireless output.

- Small, light weight, convenient
- Pure sine wave output,
- 0.3S quick start, High efficiency
- Support QC3.0 fast charging, support PD18-100W fast charging, 15W wireless charging
- LCD display, visualization of operating data

Rated Capacity	576Wh				
Rated power	600W				
Charge and discharge parameters					
Operating temperature	0°C~+40°C (Charge) -10°C~+40°C(Discharge)				
Support charging type	Grid charging/Solar charging				
Input voltage range	Grid input 100V/solar input 20V				
Input voltage	Grid input 100V/Solar input 20V				
Charging voltage	12V				
AC Max charging current	50V/5A				
Max charging power	100W				
Output type	AC	USB	Type-C	DC	Wireless charge
Output rated power	600W	QC3.0 18W	100W MAX	100W	15W
Frequency	50Hz/60 Hz±1HZ(Auto)				
Output voltage/current	110~230V/10A	5V/2.4A,5V/3A	5~20V/3.25A	12.5V 8A	12V/1.25A
Product Features					
Cooling method	Cooling fan				
Running noise	≤5dB				
Protection	IP53				
Working humidity	65±20%RH				
Storage humidity	65±20%RH				
Product Information					
Product Size	265*200*195mm				
Package Size	365*325*298mm				
Net weight	4.9kg				
Gross weight	6.5kg				
Packing	Carton				

Protection



Low voltage
Protection



Over voltage
Protection



Over current
Protection



Over temperature
Protection



Balanced
Protection



Over discharge
Protection



Short circuit
Protection

Customized sockets



Multifunction



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SouthAfrica

Portable Outdoor Power Supply

1200W 1008Wh



Portable mobile power supply is a portable energy storage power supply that integrates multiple functions. It has built-in high-performance A-grade lithium iron phosphate batteries, high-quality BMS management system, and high-efficiency inverter conversion circuit. It can be used as a home, office, outdoor camping and emergency backup power supply. Mains or solar power available charging, can provide rated 220V/1200W AC output, 5V/12V DC output, USB output, Type C, wireless output.

- Small, light weight, convenient
- Pure sine wave output,
- 0.3S quick start, High efficiency
- Support QC3.0 fast charging, support PD18-65W fast charging, 15W wireless charging
- LCD display, visualization of operating data

Rated Capacity	1008Wh				
Rated power	1200W				
Charge and discharge parameters					
Operating temperature	0°C~+40°C (Charge) -10°C~+40°C(Discharge)				
Support charging type	Grid charging/Solar charging				
Input voltage range	Grid input 100V/solar input 20~40V				
Input voltage	Grid input 100V/Solar input 20~40V				
Charging voltage	16.8V				
AC Max charging current	100V/10A				
Max charging power	550W				
Output type	AC	USB	Type-C	DC	Wireless charge
Output rated power	1200W	QC3.0 18W	65W MAX	100W	15W
Frequency	50Hz/60 Hz±1HZ(Auto)				
Output voltage/current	110~230V/10A	5V/2.4A,5V/3A	5~20V/3.25A	12.5V 8A	12V/1.25A
Product Features					
Cooling method	Cooling fan				
Running noise	≤5dB				
Protection	IP53				
Working humidity	65±20%RH				
Storage humidity	65±20%RH				
Product Information					
Product Size	370*245*275mm				
Package Size	455*325*368mm				
Net weight	13kg				
Gross weight	15kg				
Packing	Carton				

Protection



Low voltage
Protection



Over voltage
Protection



Over current
Protection



Over temperature
Protection



Balanced
Protection



Over discharge
Protection



Short circuit
Protection

Customized sockets



Multifunction



U.S.



GFCI



Australia



U.K.



Lsrail



Switzerland



France



Germany



Japan



SouthAfrica



Power Supply

3-5kW/3-5kWh

- Large capacity, High power
- Pure sine wave output,
- LCD display, visualization of operating data

Product basic parameters		
Rated power	S-3	S-5
Standard voltage	3200W	5000W
Installation	3.2kWh	5.12kWh
Solar parameter		
Working model	MPPT	
Rated solar input voltage	360VDC	
MPPT tracking voltage range	120-450V	
Max input voltage (VOC) at lowest temperature	500V	
Max input power	4000W	6000W
Number of MPPT tracking paths	1 Path	
INPUT		
DC input voltage range	21-30VDC	42-60VDC
Rated mains power input voltage	220/230/240VAC	
Grid power input voltage range	170~280VAC(UPS model)/120~280VAC(inverter model)	
Grid input frequency range	40~55Hz(50Hz) 55~65Hz(60Hz)	
OUTPUT		
Inverter	Output efficiency	94%
	Output voltage	220VAC±2%/230VAC±2%/240VAC±2%(Inverter model)
	Output frequency	50Hz±0.5 or 60Hz±0.5(Inverter model)
Grid	Output efficiency	≥99%
	Output voltage range	Following input
	Output frequency range	Following input
Battery mode no-load loss		≤1%(At rated power)
Grid mode no-load loss		≤0.5% Rated power(the charger of grid power doesn't work)
Battery		
Battery type	Lead acid battey	Equalizing charging 13.8V Floating charging 13.7V (single battery voltage)
	Customized battery	The parameter can be set according to customers' requirement (Use different types of battery by setting the panel)
Max mains charging current		60A 60A
Max solar charging current		80A 100A
Max charging current(Grid+solar)		100A 100A
Charging method		Three-stage (constant current, constant voltage, float charge)
Protected mode		
Battery low voltage range		Battery low voltage protection value +0.5V (Single battery voltage)
Battery voltage protection		Factory default: 10.5V (Single battery voltage)
Battery over voltage alarm		Equal charging voltage +0.8V (Single battery voltage)
Battery over voltage protection		Factory default: 17V (Single battery voltage)
Battery over voltage recovery Voltage		Battery over voltage protection value -1V (Single battery voltage)
Overload /short circuit protection		Automatic protection (battery mode), circuit breaker or fuse (Grid mode)
Temperature protection		≥90℃ off output
Performance parameters		
Conversion time		≤4 ms
Cooling method		Intelligent cooling fan
Working temperature		-10~40℃
Storage temperature		-15~60℃
Altitude		2000m(>2000m altitude need derating)
Humidity		0~95% (No condensation)
Product Size	500*300*340mm	500*300*340mm
Package Size	600*400*440mm	600*400*440mm
Net weight	42kg	55kg
Gross weight	48kg	65kg