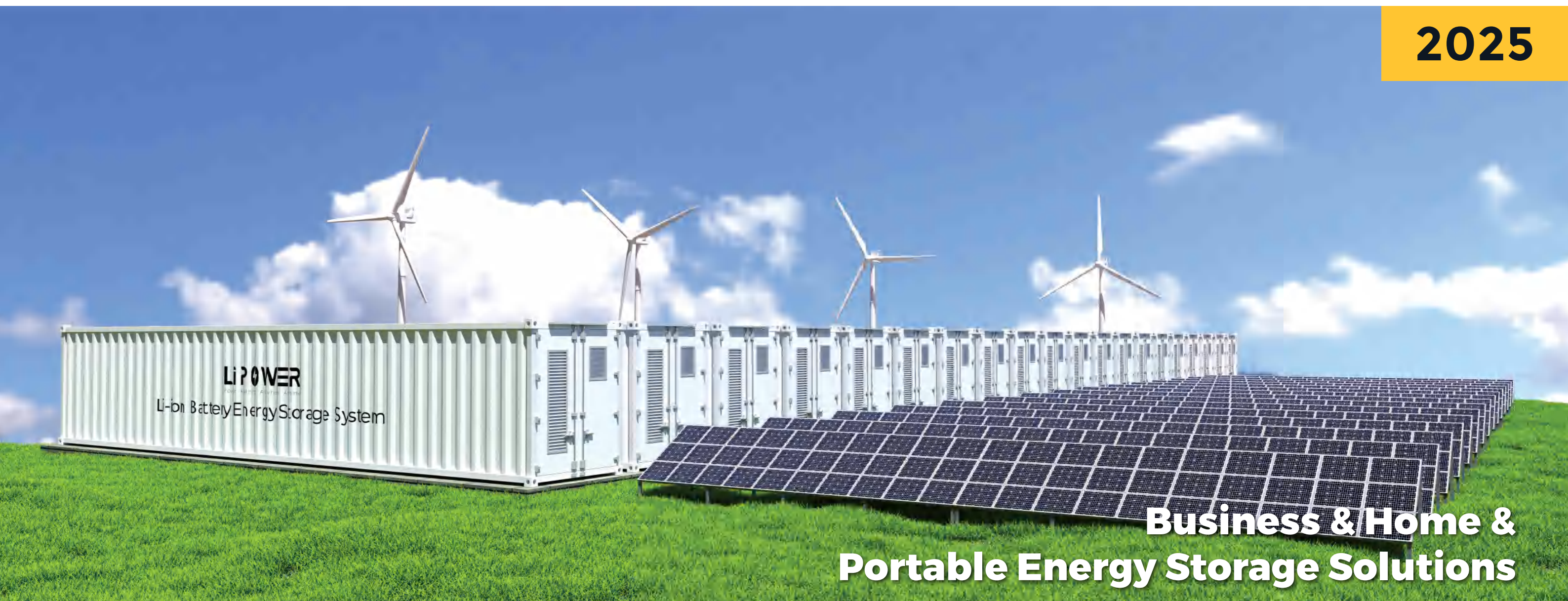




Business & Home & Portable Energy Storage Solutions



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LIPOWER NEW ENERGY TECH CO.,LTD

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LIPOWER NEW ENERGY TECHNOLOGY CO.,LTD

With more than 23 years experience in lithium battery industry

LIPOWER-Leading lithium BESS integration services provider, committed to providing global customers with BESS products with leading technology and excellent performance; the first CM-GTS helps global partners quickly establish localized capacity.

Rich Experience

We have a complete development process from the selection of electronic components to circuit design and verification for 23 years.

Exacting Standard

We adopt modern production management system and quality system, And has passed ISO9001 system certification and BSCI standard certification.

Professional Team

With an experienced R&D team and an efficient and collaborative management team, it has won a number of domestic and foreign quality certifications and design awards.

LIPOWER

Power Anything Anywhere Anytime

力博能源

ABOUT US

HOME ENERGY STORAGE SERIES

51.2V 100Ah

Wall mounted battery



BT51100

Wall mounted battery

Model No	BT51100-5KWh	BT51100-10KWh	BT51100-15KWh	BT51100-20KWh
Battery Module Parameters				
Cell Type	LiFePO4 battery			
Voltage & Capacity	51.2V 100Ah			
Rated Energy (kwh)	5.12KWh			
Cycle Life	6000 times @ standard working conditions			
Nominal Voltage	51.2V			
Working Voltage range	45.6-56.8V			
System parameters				
Number of battery modules	1PCS	2PCS	3PCS	4PCS
Voltage & Capacity	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah	51.2V 400Ah
Nominal Voltage	51.2V			
Working voltage range	45.6-56.8V			
Rated Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh
Rated charge current	50A	100A	150A	200A
Rated discharge current	100A	200A	300A	400A
Commnication Port	CAN/RS485/RS232			
Interactive Mode	LED display			
Dimensions (W×H×D)	626*147*375mm	2×626*147*375mm	3×626*147*375mm	4×626*147*375mm
Weight	48kg	96kg	144kg	192kg
Protection Class	IP20			
Cooling Method	Fan cooling			
Operating temperature	Charge: 0-55°C Discharge:0-60°C			
Relative Humidity Range	5%-95%			
Installation	Wall-mounted			
Maximum working altitude	2000m			
Certificate	IEC62619,CE-EMC,ROHS,UN38.3,UL			
Inverter Compatibility List	Pylon, Growatt,Voltronic,Luxpower,Deye, Must,SMA,Victron.....			

51.2V 200Ah

Wall mounted battery



BT512200-C0155

Wall mounted battery

Model No	BT512200-C0155			
Battery Module Parameters				
Cell Type	LiFePO4 battery			
Voltage & Capacity	51.2V 200Ah			
Rated Energy (kwh)	10.24KWh			
Cycle Life	6000 times @ standard working conditions			
Nominal Voltage	51.2V			
Working Voltage range	45.6-56.8V			
System parameters				
Number of battery modules	1PCS	2PCS	3PCS	4PCS
Voltage & Capacity	51.2V 200Ah	51.2V 400Ah	51.2V 600Ah	51.2V 800Ah
Nominal Voltage	51.2V			
Working voltage range	45.6-56.8V			
Rated Energy	10.24KWh	20.48KWh	30.72KWh	40.96KWh
Rated charge current	100A	200A	300A	400A
Rated discharge current	200A	400A	600A	800A
Commnication Port	CAN/RS485/RS232			
Interactive Mode	LED display			
Dimensions (W×H×D)	600*420*245mm	2×600*420*245mm	3×600*420*245m	4×600*420*245mm
Weight	92kg	184kg	276kg	368kg
Protection Class	IP20			
Cooling Method	Fan cooling			
Operating temperature	Charge: 0-55°C Discharge:0-60°C			
Relative Humidity Range	5%-95%			
Installation	Wall-mounted			
Maximum working altitude	2000m			
Certificate	IEC62619,CE-EMC,ROHS,UN38.3,UL			
Inverter Compatibility List	Pylon, Growatt,Voltronic,Luxpower,Deye, Must,SMA,Victron.....			

51.2V 100Ah

Stackable battery



BT10252H

Stackable battery

Model No	BT10252H			
Battery Module Parameters				
Cell Type	LiFePO4 battery			
Voltage & Capacity	51.2V 100Ah			
Rated Energy (kwh)	5.12KWh			
Cycle Life	6000 times @ standard working conditions			
Nominal Voltage	51.2V			
Working Voltage range	45.6-56.8V			
System parameters				
Number of battery modules	1PCS	2PCS	3PCS	4PCS
Voltage & Capacity	51.2V 100Ah	51.2V 200Ah	51.2V 300Ah	51.2V 400Ah
Nominal Voltage	51.2V			
Working voltage range	45.6-56.8V			
Rated Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh
Rated charge current	50A	100A	150A	200A
Rated discharge current	100A	200A	300A	400A
Commnication Port	CAN/RS485/RS232			
Interactive Mode	LED display			
Dimensions (W×H×D)	670*320*1280mm	670*320*640mm	670*320*960mm	670*320*1280mm
Weight	40kg	80kg	120kg	160kg
Protection Class	IP20			
Cooling Method	Fan cooling			
Operating temperature	Charge: 0-55°C Discharge:0-60°C			
Relative Humidity Range	5%-95%			
Installation	Floor Stacking			
Maximum working altitude	2000m			
Certificate	IEC62619,CE-EMC,ROHS,UN38.3,UL			
Inverter Compatibility List	Pylon, Growatt,Voltronic,Luxpower,Deye, Must,SofarSolar,SMA,Victron.....			

51.2V 200Ah
Stackable battery



BT512200-B08

Stackable battery

Model No	BT512200-B08			
Battery Module Parameters				
Cell Type	LiFePO4 battery			
Voltage & Capacity	51.2V 200Ah			
Rated Energy (kwh)	10.24KWh			
Cycle Life	6000 times @ standard working conditions			
Nominal Voltage	51.2V			
Working Voltage range	45.6-56.8V			
System parameters				
Number of battery modules	1PCS	2PCS	3PCS	4PCS
Voltage & Capacity	51.2V 200Ah	51.2V 400Ah	51.2V 600Ah	51.2V 800Ah
Nominal Voltage	51.2V			
Working voltage range	45.6-56.8V			
Rated Energy	10.24KWh	20.48KWh	30.72KWh	40.96KWh
Rated charge current	100A	200A	300A	400A
Rated discharge current	200A	400A	600A	800A
Commnication Port	CAN/RS485			
Interactive Mode	LCD screen			
Dimensions (W×H×D)	594*500*260mm	594*500*497mm	594*500*733mm	594*500*970mm
Weight	100kg	200kg	300kg	400kg
Protection Class	IP20			
Cooling Method	Fan cooling			
Operating temperature	Charge: 0-55℃ Discharge:0-60℃			
Relative Humidity Range	5%-95%			
Installation	Stackable			
Maximum working altitude	2000m			
Protection	Overcharge protection, Overdischarge protection, Overcurrent protection, Short circuit protection, Overtemperature protection			
Inverter Compatibility List	Pylon, Growatt,Voltronic,Luxpower,Deye, Must,SofarSolar,SMA,Victron.....			

51.2V 300Ah/400Ah
Floor Standing Battery



BT512300-C0152 / BT512400-C0153

Floor Standing Battery

Model No	BT512300-C0152	BT512400-C0153
Battery Module Parameters		
Cell Type	LiFePO4 battery	
Voltage & Capacity	51.2V 300Ah	51.2V 400Ah
Rated Energy (kwh)	15.36KWh	20.48KWh
Combination method	16S1P	16S1P
Nominal Voltage	51.2V	
Working Voltage range	45.6-56.8V	
Rated charge and discharge current	100A	150A
Maximum charge and discharge current	200A	
Dimensions (W×H×D)	416*455*760mm	516*455*760mm
Weight	150kg	200kg
Cycle Life	6000 times @ standard working conditions	
Commnication Port	CAN/RS485	
Interactive Mode	LCD screen	
Protection Class	IP20	
Cooling Method	Fan cooling	
Operating temperature	Charge: 0-55°C Discharge:0-60°C	
Relative Humidity Range	5%-95%	
Installation	Stackable	
Maximum working altitude	2000m	
Protection	Overcharge protection, Overdischarge protection, Overcurrent protection, Short circuit protection, Overtemperature protection	
Inverter Compatibility List	Pylon, Growatt,Voltronic,Luxpower,Deye, Must,SofarSolar,SMA,Victron.....	

51.2V 280Ah

Floor Standing Battery



BT512280-C0113

Floor Standing Battery

Model No	BT512280-C0113
Battery Module Parameters	
Cell Type	LiFePO4 battery
Voltage & Capacity	51.2V 280Ah
Rated Energy (kwh)	14.336KWh
Combination method	16S1P
Nominal Voltage	51.2V
Working Voltage range	45.6-56.8V
Rated charge and discharge current	100A
Maximum charge and discharge current	200A
Dimensions (W×H×D)	818*416*265mm
Weight	115kg
Cycle Life	6000 times @ standard working conditions
Commnication Port	CAN/RS485
Interactive Mode	LCD screen
Protection Class	IP20
Cooling Method	Fan cooling
Operating temperature	Charge: 0-55°C Discharge:0-60°C
Relative Humidity Range	5%-95%
Installation	Floor Stacking
Maximum working altitude	2000m
Protection	Overcharge protection, Overdischarge protection, Overcurrent protection, Short circuit protection, Overtemperature protection
Inverter Compatibility List	Pylon, Growatt,Voltronic,Luxpower,Deye, Must,SofarSolar,SMA,Victron.....



2.56KWh / 7.68KWh
Balcony Energy
Storage System

PH2400
BT2560

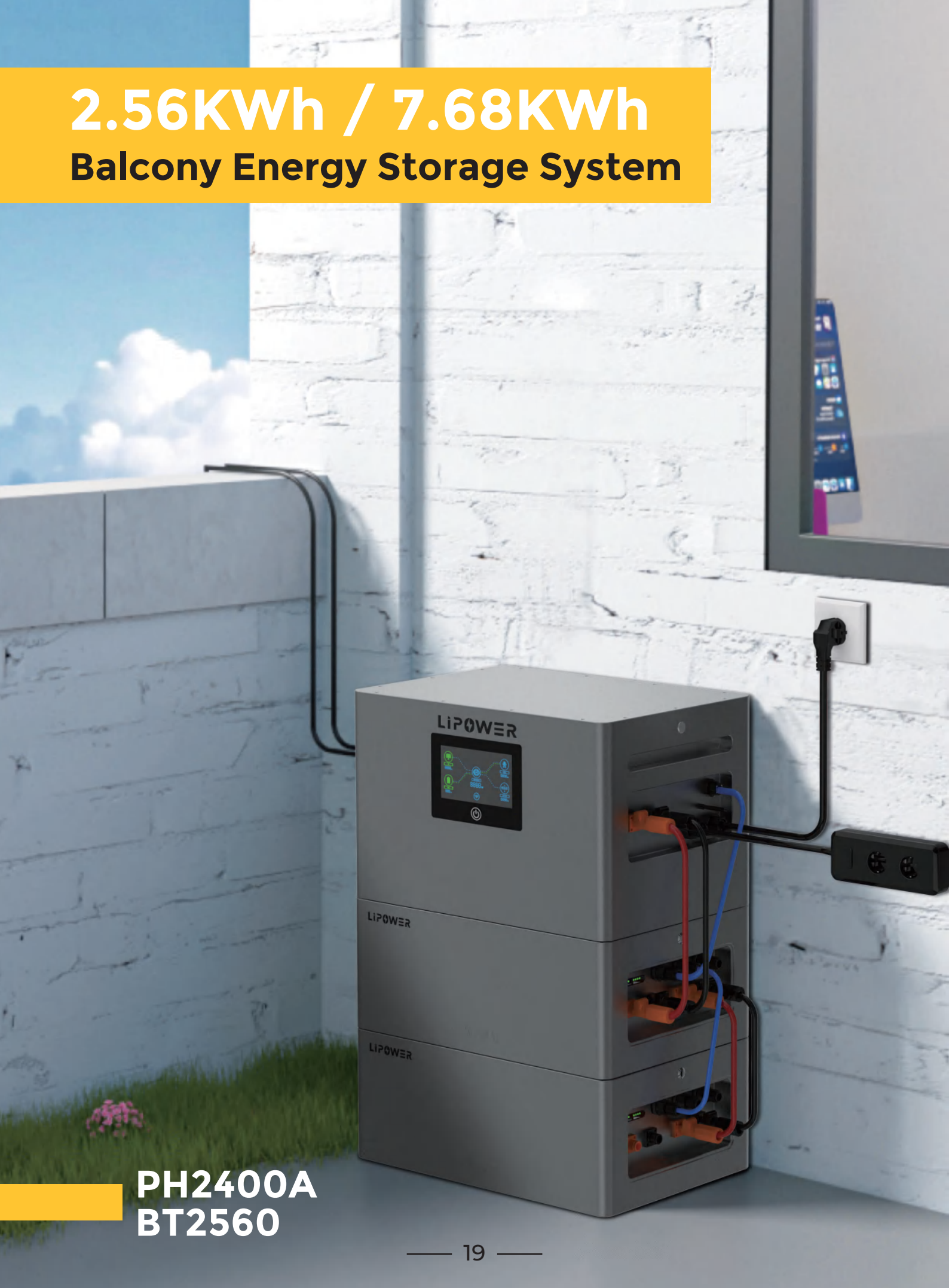
ALL-in-one energy storage system

Model	PH2400
Output	
Rated power	2400W
Peak power	4800W
Machine architecture	Bidirectional AC/DC inverter
Rated voltage	220/230/240VAC
Output frequency	50/60Hz±0.1%
Output waveform	Pure sine wave
THDV%	<2% (linear load) <7% (non-linear load)
Efficiency	
Grid charging (AC-DC)	93%
Battery discharge(DC-AC)	92%
MPPT	99.9%
PV charging	96%
Grid charging	
Input voltage range	184Vac~253Vac
Input frequency range	48Hz-51Hz
Input power factor	≥0.95
Battery and Charging	
Charging control method	Pre charge, constant current, constant voltage, equalization charge, float charge, shutdown
Charging interruption voltage	56.8V adjustable
Discharge termination voltage	44V adjustable
Charging current	Default 20A, maximum 40A, adjustable
Pre charge current	1.5A
Solar charging	
PV maximum input power	800W*2
PV maximum open circuit voltage	100VDC
PV operating voltage range	10~100VDC
PV input current	16Amax
MPPT quantity	2
PV charging current	0-16A*2
Interface	
APP	Mobile APP manages and controls grid connection time and power
Communication interface	On/off command interface, RS485, CAN communication
Environment	
Operating temperature range	-20~55°C
Working humidity range	0-98% (no condensation)
Heat dissipation	external fan
noise	<45dB
Protection	IP65
Environment	
Size	394mm*265mm*98mm
Weight (kg)	7.5kg

Model	BT2560
Lithium battery	
Battery nominal voltage	51.2Vdc
Rated capacity	50Ah
Maximum charging current	25A
Maximum discharge current	50A
Working voltage range	44.8Vdc~58.4Vdc
Operating temperature	-10°C~50°C
kWh	2.56kWh
Protect	
BMS protection	Overcharge protection, over-discharge protection, over-current protection, short-circuit protection, over-temperature protection
Environment	
Noise(dB)	<40dB (1 meter)
Working temperature	-10°C~50°C
Humidity	0~95% (no condensation)
Sea level (m)	≤1500
Structure	
Product size	L520*W360*H220mm
Net weight	32.6kg

2.56KWh / 7.68KWh

Balcony Energy Storage System



PH2400A
BT2560

ALL-in-one energy storage system

Model	PH2400A
Output	
Rated power	2400W
Peak power	4800W
Machine architecture	Bidirectional AC/DC inverter
Rated voltage	220/230/240VAC
Output frequency	50/60Hz±0.1%
Output waveform	Pure sine wave
THDV%	<2% (linear load) <7% (non-linear load)
Efficiency	
Grid charging (AC-DC)	93%
Battery discharge(DC-AC)	92%
MPPT	99.9%
PV charging	96%
Grid charging	
Input voltage range	184Vac~253Vac
Input frequency range	48Hz~51Hz
Input power factor	≥0.95
Battery and Charging	
Charging control method	Pre charge, constant current, constant voltage, equalization charge, float charge, shutdown
Charging interruption voltage	56.8V adjustable
Discharge termination voltage	44V adjustable
Charging current	Default 20A, maximum 40A, adjustable
Pre charge current	1.5A
Solar charging	
PV maximum input power	800W*2
PV maximum open circuit voltage	100VDC
PV operating voltage range	10~100VDC
PV input current	16Amax
MPPT quantity	2
PV charging current	0-16A*2
Interface	
APP	Mobile APP manages and controls grid connection time and power
Communication interface	On/off command interface, RS485, CAN communication
Environment	
Operating temperature range	-20~55°C
Working humidity range	0-98% (no condensation)
Heat dissipation	external fan
noise	<45dB
Protection	IP65
Environment	
Size	520mm*360mm*331mm
Weight (kg)	40kg

Model	BT2560
Lithium battery	
Battery nominal voltage	51.2Vdc
Rated capacity	50Ah
Maximum charging current	25A
Maximum discharge current	50A
Working voltage range	44.8Vdc~58.4Vdc
Operating temperature	-10°C~50°C
kWh	2.56kWh
Protect	
BMS protection	Overcharge protection, over-discharge protection, over-current protection, short-circuit protection, over-temperature protection
Environment	
Noise(dB)	<40dB (1 meter)
Working temperature	-10°C~50°C
Humidity	0~95% (no condensation)
Sea level (m)	≤1500
Structure	
Product size	L520*W360*H220mm
Net weight	32.6kg

5KW/ 15KWh

ALL-in-one energy storage system



PH5000A

ALL-in-one energy storage system

Model	PH5000A
Battery Module Parameters	
Number of parallel allowed	15 max
Battery Type	LiFePO4 Battery
Configuration	16S1P
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5120Wh*3
Utility Power Mode	
Rated input voltage	208/220/230/240VAC
input voltage range	170-280V(Computer equipment)90 ~ 280V(Household appliances)
frequency	50Hz/60Hz
Frequency range	40~70Hz, Default
Overload/short circuit protection	Circuit breaker (40A) bypasses 2x
Maximum efficiency	95%
Conversion time	10ms
Inverter Module Parameters	
Number of parallel allowed	6 max
Output voltage waveform	Pure sine wave
Rated output power (VA)	5600VA
Rated output power (W)	5600W
Rated output voltage(Vac)	208/220/230/240VAC
Output voltage error	±5%
Output frequency range(Hz)	50/60Hz±0.1%
Maximum efficiency	94%
Output short-circuit protection	Circuit Breaker
Bypass circuit breaker specifications	40A
Rated battery input voltage	40-60V
Battery voltage range	40-60V
Power saving mode	Yes
Utility Power Charging	
Battery Type	Lithium battery
Maximum charging current (configurable)	60A
Charge current error	±5%
Short-circuit protection	Circuit Breaker(40A)
Circuit breaker specifications	40A
Overcharge protection	61V
Solar charging	
Maximum PV open circuit voltage	500V
PV operating voltage range	120-450V
MPPT voltage range	120-430V 22A max
Battery voltage range	40-60V
Maximum PV input power	5500W

51.2V 100Ah

ALL-in-one energy storage system



PH5000E

ALL-in-one energy storage system

Model	PH5000E
Battery Module Parameters	
Number of parallel allowed	16 max
Battery Type	LiFePO4 Battery
Configuration	16S1P
Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5120Wh
Utility Power Mode	
Rated input voltage	208/220/230/240VAC
input voltage range	170-280V(Computer equipment)90 ~ 280V(Household appliances)
frequency	50Hz/60Hz
Frequency range	40~70Hz, Default
Overload/short circuit protection	Circuit breaker (40A) bypasses 2x
Maximum efficiency	99%
Conversion time	10ms
Inverter Module Parameters	
Number of parallel allowed	9 max
Output voltage waveform	Pure sine wave
Rated output power (VA)	5000VA
Rated output power (W)	5000W
Rated output voltage(Vac)	208/220/230/240VAC
Output voltage error	±5%
Output frequency range(Hz)	50/60Hz±0.1%
Maximum efficiency	94%
Output short-circuit protection	Current limiting
Bypass circuit breaker specifications	40A
Rated battery input voltage	40-60V
Battery voltage range	40-60V
Power saving mode	Yes
Utility Power Charging	
Battery Type	Lithium battery / lead-acid battery
Maximum charging current (configurable)	80A
Charge current error	±5%
Charging voltage range	< 205 80A charging: 90< mains voltage < 205 linear derating
Short-circuit protection	Circuit Breaker(40A)
Circuit breaker specifications	40A
Overcharge protection	61V
Solar charging	
Maximum PV open circuit voltage	500V
PV operating voltage range	120-450V
MPPT voltage range	120-430V
Battery voltage range	40-60V
Maximum PV input power	5500W

25.6V 280Ah
ALL-in-one energy storage system



PH7000

ALL-in-one energy storage system

Model	PH7000
Battery Module Parameters	
Battery Type	LiFePO4
Rated Capacity	280AH
Rated Voltage	25.6V
Rated Energy	7168Wh
Utility Power Mode	
Rated input voltage	220/230VAC
Frequency	50Hz/ 60Hz (auto detection)
Maximum efficiency	95%
Conversion time	10ms (typical)
Maximum bypass overload flow	30A
Inverter Module Parameters	
Output voltage waveform	Pure sine wave
Rated output power (W)	3600W
Rated output voltage(Vac)	230Vac
Frequency	50Hz/ 60Hz
Maximum efficiency	>92%
Peak Power	7200VA
Bypass circuit breaker specifications	30A
Rated battery input voltage	24V (minimum starting voltage 22V)
Power saving mode	Load ≤ 25W Enter power saving mode
Utility Power Charging	
Battery Type	Lithium battery
Maximum charging current (configurable)	80A
Charge current error	±5A _{dc}
Charging voltage range	20-33V _{dc}
Short-circuit protection	Circuit Breakers and Fuses
Circuit breaker specifications	30A
Overcharge protection	Alarm and shut down charging after 1 minute
Solar charging	
Maximum PV open circuit voltage	500V _{dc}
PV operating voltage range	80-500V _{dc}
MPPT voltage range	120-450V _{dc}
Battery voltage range	20-33V _{dc}
Maximum PV input power	2500W
Maximum PV input current	13A
Maximum PV charging power	2200W
Solar charging current Range (configurable)	0-80A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Maximum mixed charging current(PV+AC)	
Maximum hybrid charging Flow(configurable)	0-80A
Product parameter	
Dimensions (W×H×D)	620*345*510mm
Weight	83kg

51.2V 280Ah

ALL-in-one energy storage system



PH15000

ALL-in-one energy storage system

Model	PH15000
Battery Module Parameters	
Battery Type	LiFePO4
Rated Capacity	280AH
Rated Voltage	51.2V
Rated Energy	14336Wh
Utility Power Mode	
Rated input voltage	220/230VAC
Frequency	50Hz/ 60Hz (auto detection)
Maximum efficiency	95%
Conversion time	10ms (typical)
Maximum bypass overload flow	40A
Inverter Module Parameters	
Output voltage waveform	Pure sine wave
Rated output power (W)	5600W
Rated output voltage(Vac)	230Vac
Frequency	50Hz/ 60Hz
Maximum efficiency	>92%
Peak Power	11000VA
Bypass circuit breaker specifications	40A
Rated battery input voltage	48V (minimum starting voltage 44V)
Power saving mode	Load ≤ 25W Enter power saving mode
Utility Power Charging	
Battery Type	Lithium battery
Maximum charging current (configurable)	60A
Charge current error	±5%Adc
Charging voltage range	40-60Vdc
Short-circuit protection	Circuit Breakers and Fuses
Circuit breaker specifications	40A
Overcharge protection	Alarm and shut down charging after 1 minute
Solar charging	
Maximum PV open circuit voltage	500Vdc
PV operating voltage range	100-500Vdc
MPPT voltage range	120-450Vdc
Battery voltage range	40-60Vdc
Maximum PV input power	6000W
Maximum PV input current	22A
Maximum PV charging power	5500W
Solar charging current Range (configurable)	0-100A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
Maximum mixed charging current(PV+AC)	
Maximum hybrid charging Flow(configurable)	0-100A
Product parameter	
Dimensions (W×H×D)	620*345*760mm
Weight	137kg

8KW/ 10KW/ 12KW

Hybrid Inverter



SEI Series

Product features

- Support 6 units in parallel
- Time-slot charging & discharging
- Up to 99.9% MPPT tracking efficiency
- Support Li-ion battery BMS communication and BMS dual activation
- Up to 200A charging current
- Comprehensive protection
- Simple to install and easy to use

Hybrid Inverter

MODEL	SEI-8K-UP	SEI-10K-UP	SEI-12K-UP
INVERTER OUTPUT			
Rated Output Power	8,800W	10,000W	12,000W
Peak Power	17,600VA	20,000VA	24,000VA
Rated Output Voltage	120/240Vac, single-phase / split-phase / three-phase when in parallel		
Load Capacity of Motors	5HP	6HP	
Rated Output Frequency	50/60Hz		
BATTERY			
Battery Type	Lead-acid/Li-ion/User-defined		
Rated Battery Voltage	48V		
Max. PV Charging Current	200A		
Max. Utility Charging Current	120A		
Max. Generator Charging Current	60A		
Max. Hybrid Charging Current	200A		
PV INPUT			
Num. of MPPT	2		
Max. PV Array Power	5,500W+5,500W		6,600W+6,600W
Max. Input Current	22A+22A		
Max. Open-circuit Voltage	500Vdc+500Vdc		
MPPT Operating Voltage Range	125~425Vdc		
UTILITY / GENERATOR INPUT			
Input Voltage Range	90~140Vac		
Frequency Range	50/60Hz		
GENERAL			
Num. of Parallel	1~6 units		
Dimensions	750*440*240mm		
Weight	42kg		
Protection Degree	IP65		
Operating Temp. Range	-25~60°C, >45°C derated		
Cooling Method	intelligent air cooling		
Warranty	5 years		
COMMUNICATION			
Internal Interface	RS485 / CAN / USB / Dry contact		
External Module (optional)	Wi-Fi / GPRS		

5KW/5.5KW

Off-grid Inverter



HSI Series

Product features

- Up to 6 units in parallel for 5500P model
- Support remote monitoring
- Up to 99.9% MPPT tracking efficiency
- Support Li-ion battery BMS communication and BMS dual activation
- Max. PV charging current up to 100A
- Comprehensive protection
- Simple to install and easy to use

Off-grid Inverter

MODEL	HSI 5500	HSI 5000U
INVERTER OUTPUT		
Rated Output Power	5,500W	5,000W
Peak Power	11,000VA	11,000VA
Rated Output Voltage	230Vac, single-phase	120Vac, single-phase
Load Capacity of Motors	4HP	
Rated AC Frequency	50Hz/60Hz	
Waveform	pure sine wave	
Switch Time	10ms(typical)	
BATTERY		
Battery Type	Lead-acid/Li-ion/User-defined	
Rated Battery Voltage	48V	
Voltage Range	40~60Vdc	
Max. PV Charging Current	100A	80A
Max. Utility/Generator Charging Current	60A	40A
Max. Hybrid Charging Current	100A	80A
PV INPUT		
Num. of MPPT	1	
Max. PV Array Power	6,000W	
Max. Input Current	22A	
Max. Open-circuit Voltage	500Vdc	
MPPT Voltage Range	120~450Vdc	
UTILITY/ GENERATOR INPUT		
Input Voltage Range	UPS mode:170~280Vac; APL mode:90~280Vac	90~140Vac
Frequency Range	50/60Hz	
Bypass Overload Current	40A	63A
GENERAL		
Dimensions	426*322*126mm	
Weight	10.5kg	11.6kg
Protection Degree	IP20, indoor only	
Operating Temp. Range	-10°C~55°C	
Cooling Method	intelligent fan	
Warranty	18 months	
COMMUNICATION		
Embedded Interfaces	RS485 / USB / Dry contact	
External Module (optional)	Wi-Fi / GPRS	

8KW~10KW

Peak shaving & Valley filling Hybrid Inverter



SPI Series

Product features

- Up to 6 units in parallel for SP
- Support Li-ion battery BMS dual activation
- Dual MPPT with up to 99.9% efficiency
- With a modern aesthetic look, simple to install and easy to use
- Up to 260A charging current
- Comprehensive protection
- Highly efficient 400V three-phase system

Peak shaving & Valley filling Hybrid Inverter

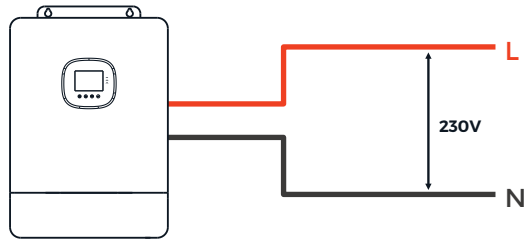


MODEL	SPI-8K-SP	SPI-10K-SP
INVERTER OUTPUT		
Rated Output Power	8,000W	10,000W
Peak Power	16,000W	20,000W
Rated Output Voltage	230Vac, single-phase or three-phase when in parallel	
Load Capacity of Motors	5HP	6HP
Rated AC Frequency	50/60Hz	
Waveform	pure sine wave	
Switch Time	10ms(typical)	
BATTERY		
Battery Type	Li-ion/Lead-acid/User-defined	
Rated Battery Voltage	48Vdc	
Battery Voltage Range	40~60Vdc	
Max. PV Charging Current	180A	200A
Max. Utility/Generator Charging Current	100A	120A
Max. Hybrid Charging Current	180A	200A
PV INPUT		
Num. of MPPT	2	
Max. PV Array Power	5,500W+5,500W	
Max. Input Current	22A+22A	
Max. Open-circuit Voltage	500Vdc+500Vdc	
MPPT Voltage Range	125~425Vdc	
UTILITY / GENERATOR INPUT		
Input Voltage Range	90~275Vac	
Frequency Range	50/60Hz	
Bypass Overload Current	63A	
GENERAL		
Num. of Parallel	1~6 units	
Dimensions	620*445*130mm	
Weight	27kg	
Protection Degree	IP20, indoor only	
Operating Temp. Range	-10~55°C, >45°C derated	
Cooling Method	intelligent air cooling	
Warranty	18 months	
COMMUNICATION		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	
External Module (optional)	Wi-Fi / GPRS	

MODEL	SPI-8K-U	SPI-10K-U
INVERTER OUTPUT		
Rated Output Power	8,000W	10,000W
Peak Power	16,000W	20,000W
Rated Output Voltage	120Vac, single-phase / 240Vac, split-phase	
Load Capacity of Motors	5HP	6HP
Rated AC Frequency	50/60Hz	
Waveform	pure sine wave	
Switch Time	10ms(typical)	
BATTERY		
Battery Type	Li-ion/Lead-acid/User-defined	
Rated Battery Voltage	48Vdc	
Battery Voltage Range	40~60Vdc	
Max. PV Charging Current	180A	200A
Max. Utility/Generator Charging Current	100A	120A
Max. Hybrid Charging Current	180A	200A
PV INPUT		
Num. of MPPT	2	
Max. PV Array Power	5,500W+5,500W	
Max. Input Current	22A+22A	
Max. Open-circuit Voltage	500Vdc+500Vdc	
MPPT Voltage Range	125~425Vdc	
UTILITY / GENERATOR INPUT		
Input Voltage Range	90~140Vac	
Frequency Range	50/60Hz	
Bypass Overload Current	63A	
GENERAL		
Dimensions	620*445*130mm	
Weight	27kg	
Protection Degree	IP20,indoor only	
Operating Temp. Range	-10~55°C, >45°C derated	
Cooling Method	intelligent air cooling	
Warranty	18 months	
COMMUNICATION		
Embedded Interfaces	RS485 / CAN / USB / Dry contact	
External Module (optional)	Wi-Fi / GPRS	

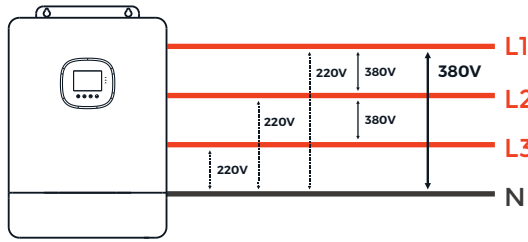
Output mode

Single-phase



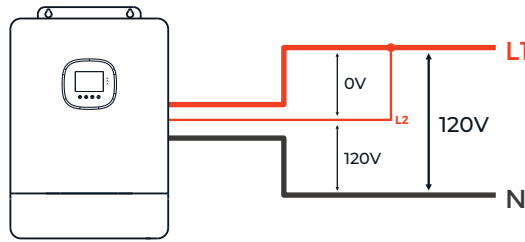
EU, -S series

Three-phase



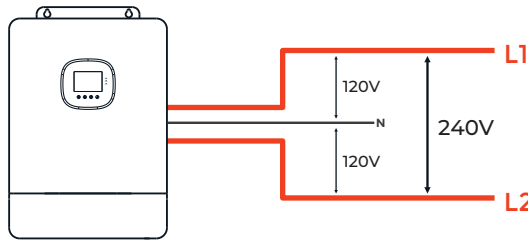
EU, -H3 series

Single-phase



US, -U series

Split-phase



US, -U series

INDUSTRIAL & COMMERCIAL ENERGY STORAGE SERIES

Business Energy Storage System

Suitable for Energy Storage System in Small Factories, Shopping Malls, and Electric Vehicle Charging Stations

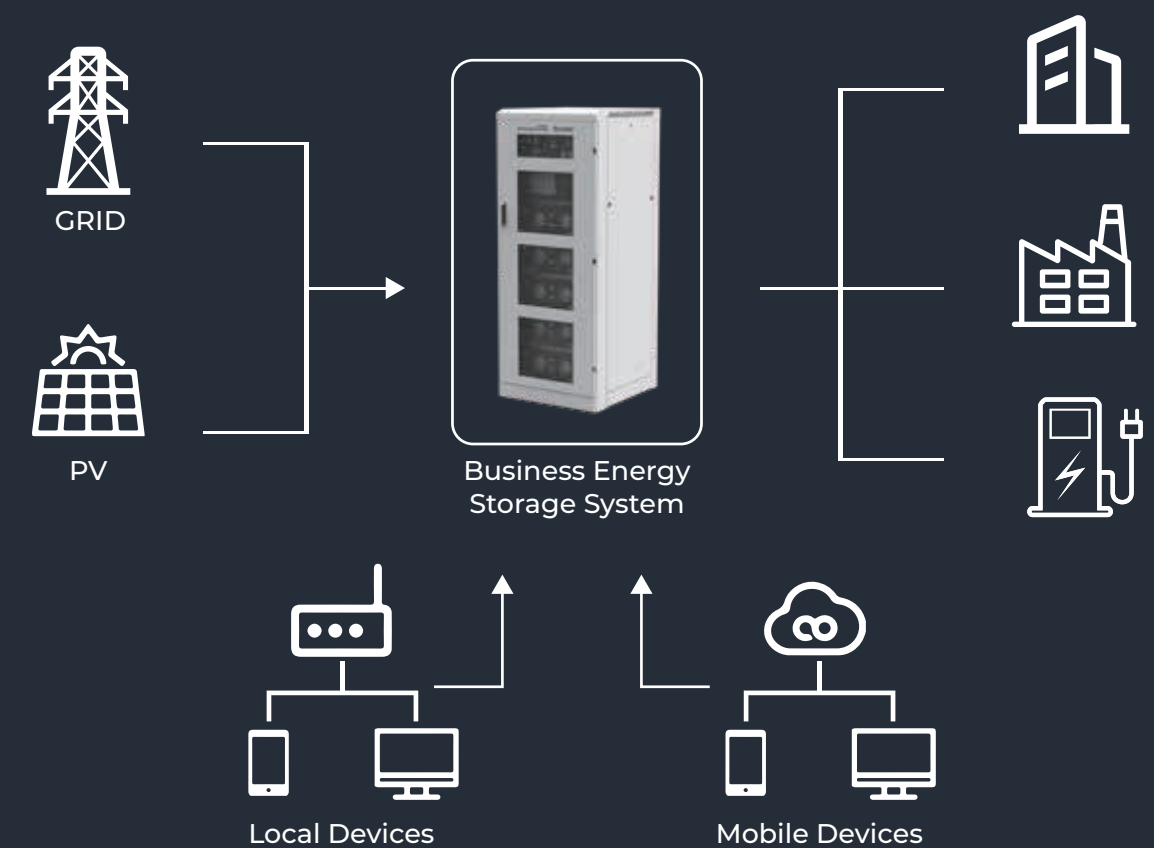


Technical Advantages

- LFP battery system with multiple protection design,safty and reliable.
- Module design,flexible configuration, and easy expansion.
- Long cycle life,slow degradation,and excellent performance.
- Easy operation and maintenance,time saving,labor saving and cost saving.



System Operation Diagram

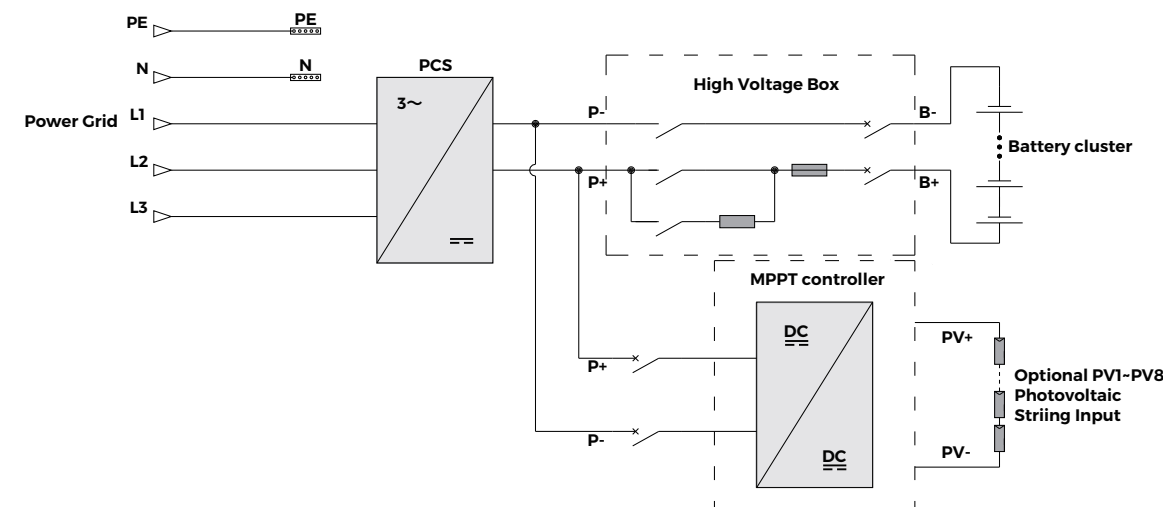


100kW /200kWh 100kW/225kWh Optical storage system (On Grid ESS)

- Flexible 1+N parallel operation for scalable use;
- Compact, easy installation and small footprint;
- Optional DC coupling interface, independent MPPT, centralized management. No need to configure an additional combiner box;
- 4G/Wi-Fi monitoring enables remote inspections, minimizing manual work;
- Automated peak shaving and valley filling with integrated BMS, PCS, and EMS control.



GEW200-100K-400A GEW225-100K-400A



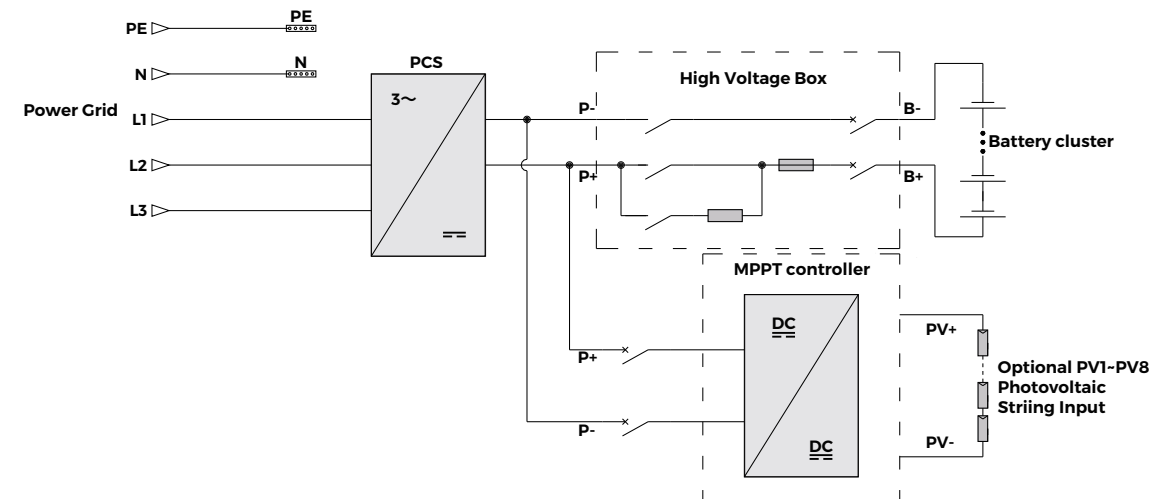
Product Model		GWE200-100k-400-A	GWE225-100k-400-A
DC Battery Parameters	Cell type	LFP 280Ah	LFP 314Ah
	Battery Pack Capacity and Configuration	14.336kWh/1P16S	16.077kWh/1P16S
	Battery Capacity and Pack Quantity	200kWh/14	225kWh/14
	Battery Voltage Range	627V~806V	627V~806V
	Charge and Discharge Rate	≤0.5C	
	Discharge Depth	95%DOD	
	Cycles	>8000	
PV Side Parameter	Number of Temperature Checks	112	
	Maximum Input Power	200kW	
	Maximum Input Current	320A	
AC Side Parameters	Voltage Range	627V-806V	
	AC Rated Power	100kW	
	AC Maximum Power	110kW	
	AC Current Distortion Rate	<3%	
	DC Component	<0.5%I _{pn}	
	System Voltage Format	400V	
	Grid Voltage Range	360VAC~440VAC	
System Parameters	Power Factor	-1~1	
	Rated Grid Frequency	50Hz/60Hz	
	Maximum System Efficiency	≥89%	
	Operating Temperature	-30~55°C(Derating when exceeding 40 degrees celsius)	
	Relative Humidity	0~95%RH, No Condensation	
	Dimensions (W x D x H)	1050×1050×2350mm	
	Weight	2100kg	
	Protection Level	The Whole Machine IP54	
	Noise	<70dB	
	Cooling Method	Air Cooling	

100kW /215kWh 125kW/261kWh Optical storage system (On Grid ESS)

- Supports 1+N parallel operation for flexible scalability;
- Compact, high-power-density design with low land use and installation costs;
- Optional DC coupling interface, independent MPPT, centralized management. No need to configure an additional combiner box;
- Automated peak shaving and valley filling with integrated BMS, PCS, and EMS control;
- Liquid cooling ensures precise temperature management and long battery life;
- Advanced fire protection with perfluorohexanone suppression for high safety.



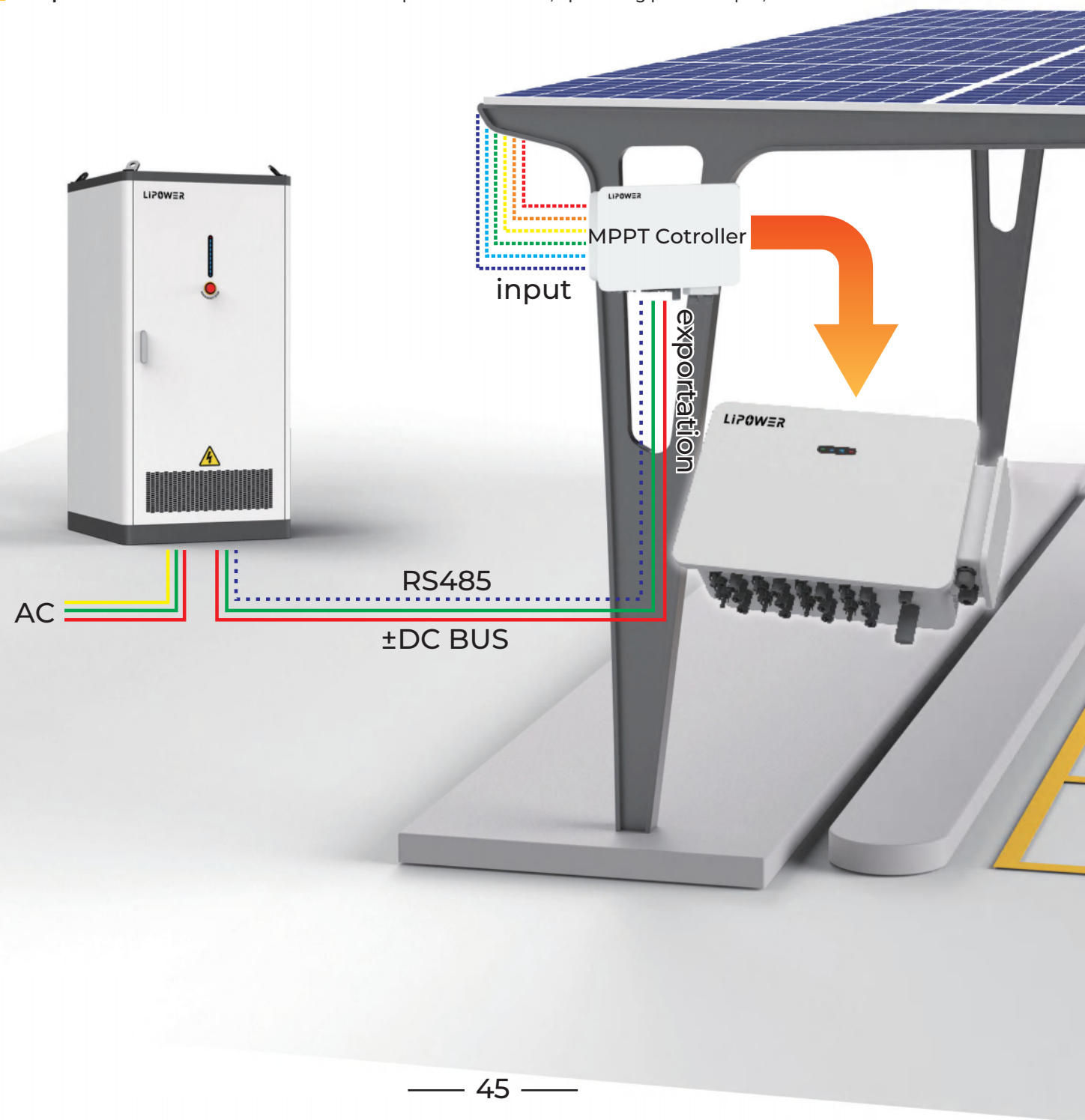
GEW215-100K-400-L GEW261-125K-400-L



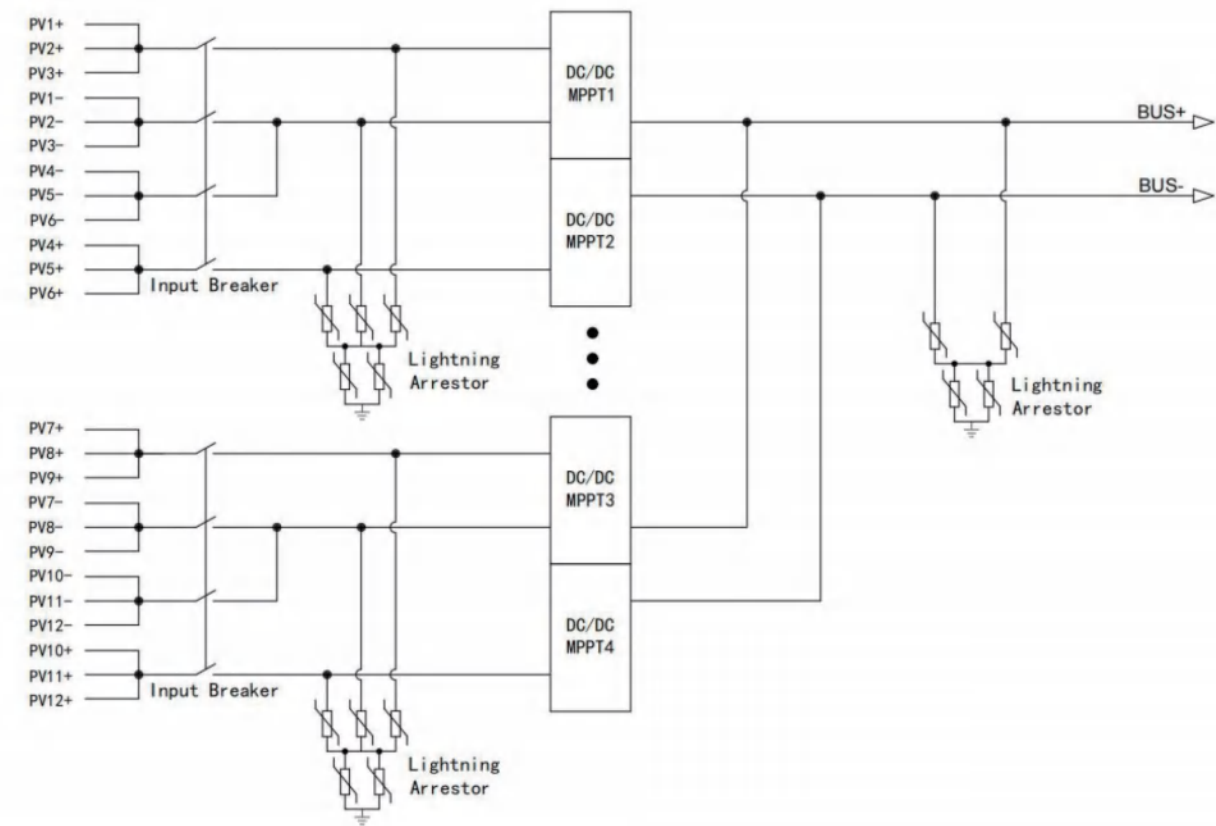
Product Model		GWE215-100k-400-L	GWE261-125k-400-L
DC Battery Parameters	Cell type	LFP 280Ah	LFP 314Ah
	Battery Pack Capacity and Configuration	43.008kWh/1P48S	52.25kWh/1P52S
	Battery Capacity and Pack Quantity	215kWh/5	261kWh/5
	Battery Voltage Range	672V~864V	728V~936V
	Charge and Discharge Rate	≤0.5C	
	Discharge Depth	95%DOD	
	Cycles	>8000	
	Number of Temperature Checks	160	
PV Side Parameter	Maximum Input Power	200kW	
	Maximum Input Current	296A	
AC Side Parameters	Voltage Range	672V-864V	728V-936V
	AC Rated Power	100kW	125kW
	AC Maximum Power	110kW	137.5kW
	AC Current Distortion Rate	<3%	
	DC Component	<0.5%I _{pn}	
	System Voltage Format	400V	
	Grid Voltage Range	360VAC~440VAC	
	Power Factor	-1~1	
System Parameters	Rated Grid Frequency	50Hz/60Hz	
	Maximum System Efficiency	≥89%	
	Operating Temperature	-30~55°C(Derating when exceeding 40 degrees celsius)	
	Relative Humidity	0~95%RH, No Condensation	
	Dimensions (W x D x H)	1050×1300×2250mm(In cluding Hanging Rings)	
	Weight	2400kg	2600kg
	Protection Level	Ip54 (Ip67 For Battery)	
	Noise	<70dB	
Cooling Method		Battery Liquid Cooling, PCS Air Cooling	

MPPT Controller

- **High Efficiency, Short DC Power Path:** Provides high efficiency with direct DC generation and storage, suitable for off-grid applications with excess photovoltaic and energy storage capacity;
- **IP65 Protection for Outdoor Use:** Ensures reliability outdoors with IP65 protection. Local MPPT boost and conversion simplify long-distance PV cable transmission;
- **Wide Input Voltage Range:** Supports 200V-900V, compatible with high-current PV modules;
- **Multiple MPPT Channels:** Accommodates varied panel orientations, optimizing power output;



GWMPPT-8 / GWMPPT-6 / GWMPPT-12



Product Model		GWMPPT-8 (About to be discontinued)	GWMPPT-6	GWMPPT-12
PV Input Parameters	Maximum Photovoltaic Array Voltage	900V		
	MPPT Voltage Range	200V-900V		
	Full Load MPPT Voltage Range	545V-900V		
	Maximum Branch Current	24A	20A	
	Number of PV Branches	8	6	12
	MPPT Quantity	8	2	4
	MPPT Current of Each Channel	20A	55A	
Output Parameter	Rated Voltage	The default value is 716.8V. You can change it to 832V		
	Voltage Range	600-950V		
	Rated Output Current	118A	84A	168A
	Rated Output Power	84kW	60kW	120kW
	Maximum Output Current	192A	120A	240A
	European Efficiency	99.4%		
	Protection Level	IP65		
System Parameters	Cooling Method	Air cooling		
	Dimensions (W x D x H)	550*530*280mm		
	Weight	42kg		
	Operating Temperature	-30~55°C		
	Power Supply	Self-Powered (no night power consumption)		
	Communication Interface	4G/RS485		

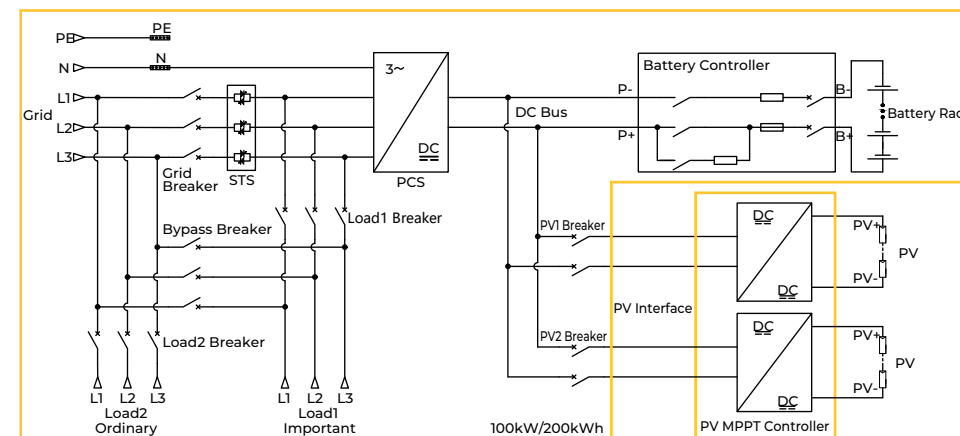
Note: It is recommended that the maximum open circuit voltage of the PV string should not exceed the nominal voltage rating of the back-end optical storage integrated machine, which is designed to withstand the highest voltage.

100kW /200kWh 125kW/225kWh Hybrid ESS

- High power density, compact size, small footprint, and easy installation and transportation;
- Supports photovoltaic integration and matches distributed MPPT controllers;
- 4G and Wi-Fi online intelligent monitoring enables remote inspection and reduces the need for on-site manual tasks;
- Deploys on demand and operates automatically during peak shaving and valley filling, supporting integrated control of BMS, PCS, and EMS systems with multiple protection mechanisms;
- Includes load,grid,PV and bypass switches,true all in one design,no additional accessories required;
- Features a built-in STS for grid-tie switching and an EMS for energy management, with switching time of less than 20 milliseconds between multiple power sources.

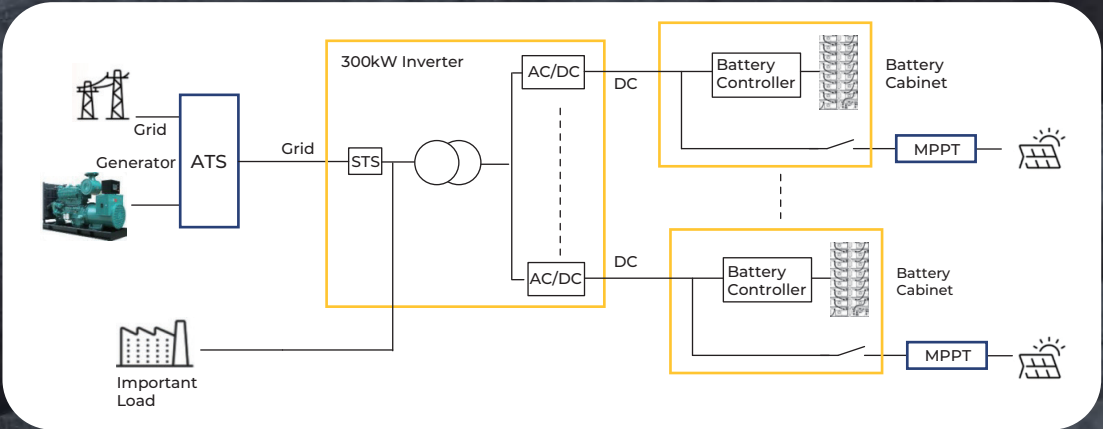


GWESTS100- 200kWh-400-A GWESTS125- 225kWh-400-A



Product Model		GWESTS100- 200kWh-400-A	GWESTS125- 225kWh-400-A
Dc Battery Parameters	Cell Type	LFP 280Ah	LFP 314Ah
	Battery Pack Capacity and Configuration	14.336kWh/1P16S	16.077kWh/1P16S
	Battery Capacity/Number of Packs	200kWh/ 14	225kWh/ 14
	Battery Voltage Range	627V~806V	
	Rated Charge and Discharge Ratio and Current	0.5C,140A	0.5C,157A
	Number of Cycles	>8000	
Dc Side PV Parameters	Number of Temperature Detections	112	
	Maximum Input Power	200kW	
	Maximum Input Current	320A	
	Voltage Range/System Bus Voltage	650V~800V	
Ac Side PCS Parameters (Grid-Connected)	Input Breaker	2P/250A/1000Vdc/2P,Supports Dual MPPT Input	
	Ac Power Rating	100kW	125kW
	Ac maximum Power	110kW	137.5kW
	Rated Current	152A	190A
	Current Distortion Rate	<3%	
	Dc Component	<0.5%I _{pn}	
	System Voltage System	3W+N+PE	
	Voltage Range	360VAC~440VAC	
Ac Side PCS Parameters (Off-Grid)	Frequency Range	45~55Hz/55~65Hz	
	Power Factor	-1~1	
	Rated Output Power	100kW	125kW
	Maximum Single-phase Output Power	33kW	42kW
	Rated Output Voltage	400V	
	Rated Output Frequency	50/60Hz	
Off-Grid Switch and Switch Configuration	Voltage Distortion THDu	<3%	
	Overload Capacity	110% Long-Term 10 Minutes	
	Bypass Maintenance Switch	250A/400Vac	
	Load Breaker	250A/400Vac	
	Grid Breaker	400A/400Vac	
	STS	305A/200kW	
System Parameters	Convert Time	STS<20ms	
	Maximum System Efficiency	≥90%	
	Operating Temperature	-30 ~ 55°C (over 40°C Derated Use)	
	Relative Humidity	0 to 95%RH, No Condensation	
	Dimensions (L x D x H)	1600×1050×2050mm	
	Weight	2300kg	
	Grade of Protection	Complete Machine IP54	
	Noise	<70dB	
	Networked Form	4G/WiFi/ Ethernet	
	Fire Protection	Aerosol	
	Display	LCD	

200kW/250kW/300kW Medium hybrid system

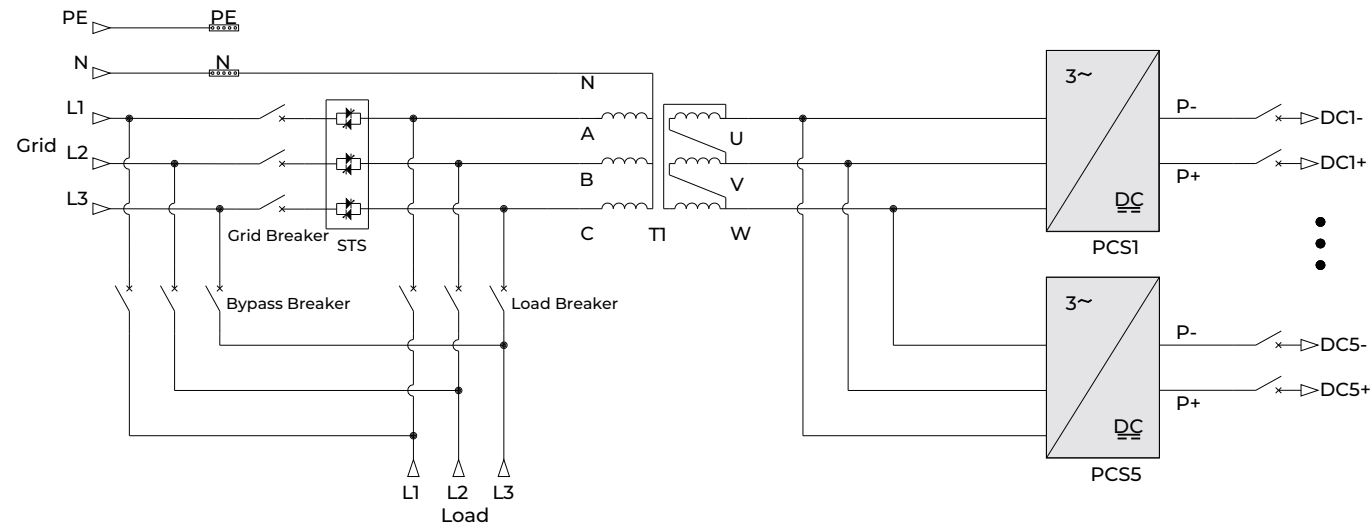


- The system uses modular inverter units that are paralleled with each inverter module's DC input corresponding to a battery cabinet;
- The number of AC/DC power modules and the power capacity of the AC/DC power system are flexible, with a standard configuration ranging from 60 kW × 5 up to 300kW;
- Each single battery cabinet integrates a photovoltaic DC input interface and a battery controller box;
- The AC output of the AC/DC power module is isolated by a transformer.

Industrial & Commercial Energy Storage

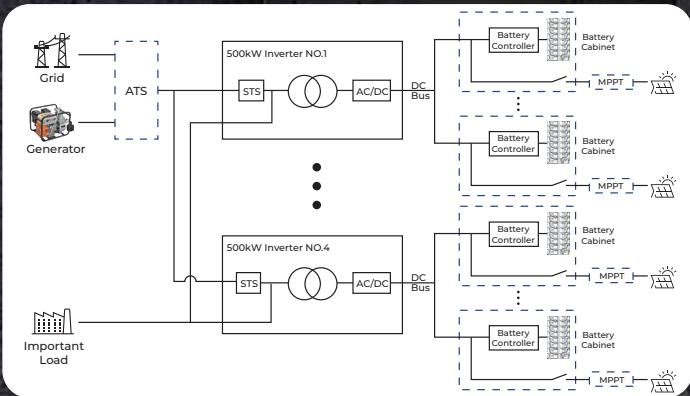
LIPOWER
Power. Anything. Anywhere. Anytime.

GWP200TS- 400-A / GWP250TS- 400-A / GWP300TS- 400-A 200kW/250kW/300kW hybrid energy storage inverter



Product Model		GWP200TS- 400-A	GWP250TS- 400-A	GWP300TS- 400-A
Dc Side Parameters	DC Voltage Range	650-950Vdc		
	Each module input switch	250A		
	Maximum DC input	3	2	5
Ac Side Parameters (Grid-Connected)	Rated output power	200kW	250kW	300kW
	Maximum output power	220kW	275kW	330kW
	Rated output current	289A	361A	433A
	THDi	<3%		
	System voltage system	3W+N+PE		
	Voltage range	360Vac~440Vac		
	Frequency range	45~55Hz/55~65Hz		
	Factor	-1~1		
Ac Side Parameters (Off-Grid)	Rated output power	200kW	250kW	300kW
	Rated output voltage	400Vac		
	Rated output frequency	50/60Hz		
	THDu	< 1% linear, < 5% nonlinear		
	Overload capacity	110% long-term		
Off-Grid Switch and Switch Configuration	Bypass switches	400A	630A	
	Grid switches	630A	800A	
	Load switches	400A	630A	
	STS unit	577A/400kW	722A/500kW	
System Parameters	Seamless	<20ms		
	Highest efficiency	97.5%		
	Operating temperature	-30~55℃（over 40℃ derated use）		
	relative humidity	0~95%RH,No Condensation		
	Dimensions (L×D×H)	1300×1000×2050mm		
	weight	1800kg		
	Ingress protection	(full set)IP21		
	noises	<70dB		
	display screen	LCD		
	BMS communication	CAN		
	EMS communication	TCP/IP		

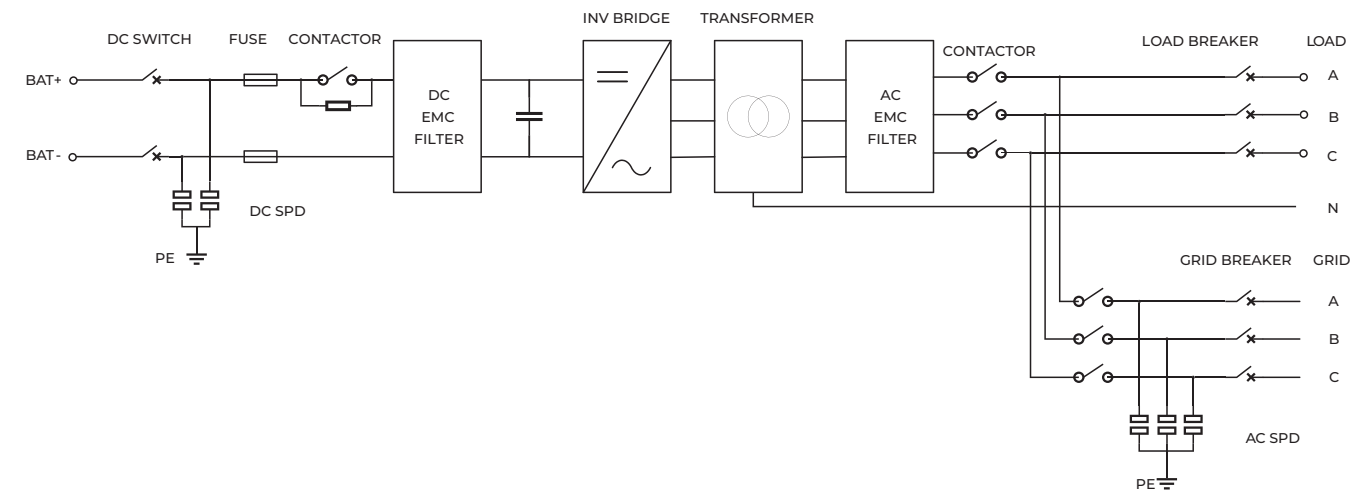
500kW Large hybrid systems



- For hybrid systems with loads exceeding 500kW, it is recommended to use a large-capacity 500 kW single-unit energy storage inverter, capable of supporting up to four sets of parallel connections, achieving a total power output of 2 MW;
- When operating multiple 500 kW systems in parallel and distributing STS across different 500 kW inverters, it is crucial to ensure that the cable length from the grid tie-point to the load tie-point is consistent;



GW500TS-400-A 500kW hybrid energy storage inverter

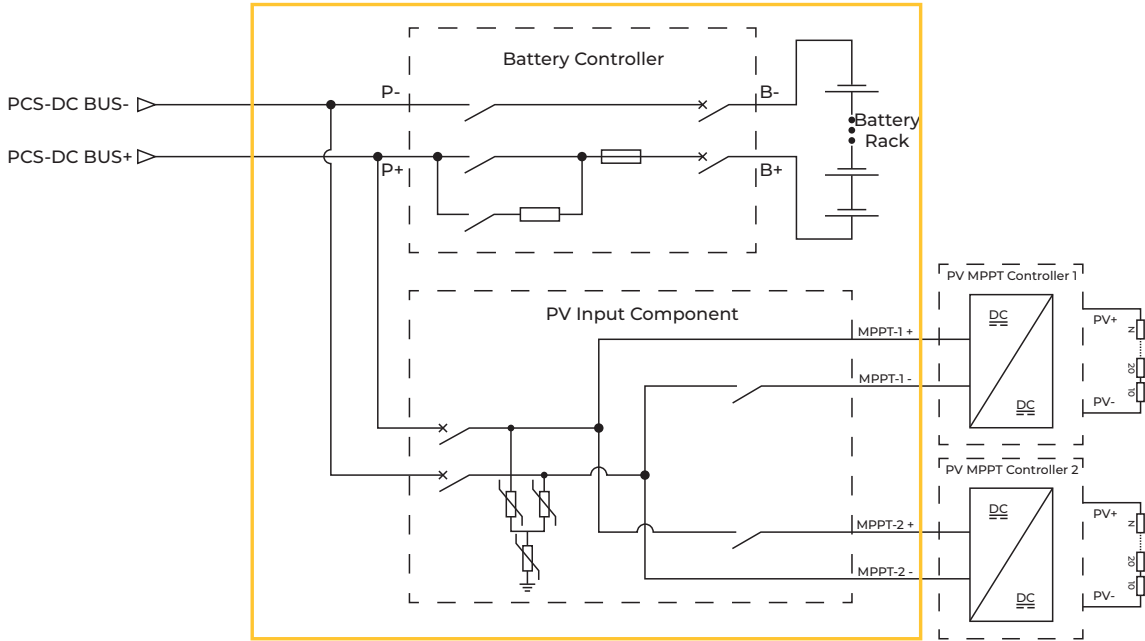


Product Model		GW500TS-400-A
Dc Side Parameters	Voltage Range	500-950Vdc
	Maximum Current	1128A
Ac Side Parameters (Grid-Connected)	Ac Power Rating	500kW
	Ac Maximum Power	550kVA
	Rated Current	722A
	Current Distortion Rate	<3%
	System Voltage System	3W+N+PE
	Voltage Range	360VAC~440VAC
	Frequency Range	45~55Hz/55~65Hz
	Power Factor	1 ~ 1
Ac Side Parameters (Off-Grid)	Rated Output Power	500kW
	Rated Output Voltage	400V
	Rated Output Frequency	50/60Hz
	Voltage Distortion THDu	<1%Linear Load, <5% Non-Linear Load
	Overload Capacity	110% Long-Term 10 Minutes
Off-Grid Switch and Switch Configuration	Bypass Maintenance Switch	1250A
	Load Switch	1250A
	Grid Switch	1250A
	STS Convert Time	<20ms
	Maximum System Efficiency	≥97.5%
System Parameters	Operating Temperature	-30 ~ 55°C (Over 40°C Derated Use)
	Relative Humidity	0 to 95%RH, No Condensation
	Dimensions (L x D x H)	1600×1050×2050mm
	Weight	2700kg
	Grade of Protection	Complete Machine Ip21
	Noise	<70dB
	Networked Form	4G/WiFi/ Ethernet
	Display	LCD
	Communication with BMS	CAN
	Communication with EMS	TCP/IP

200kWh/225kWh Battery storage systems

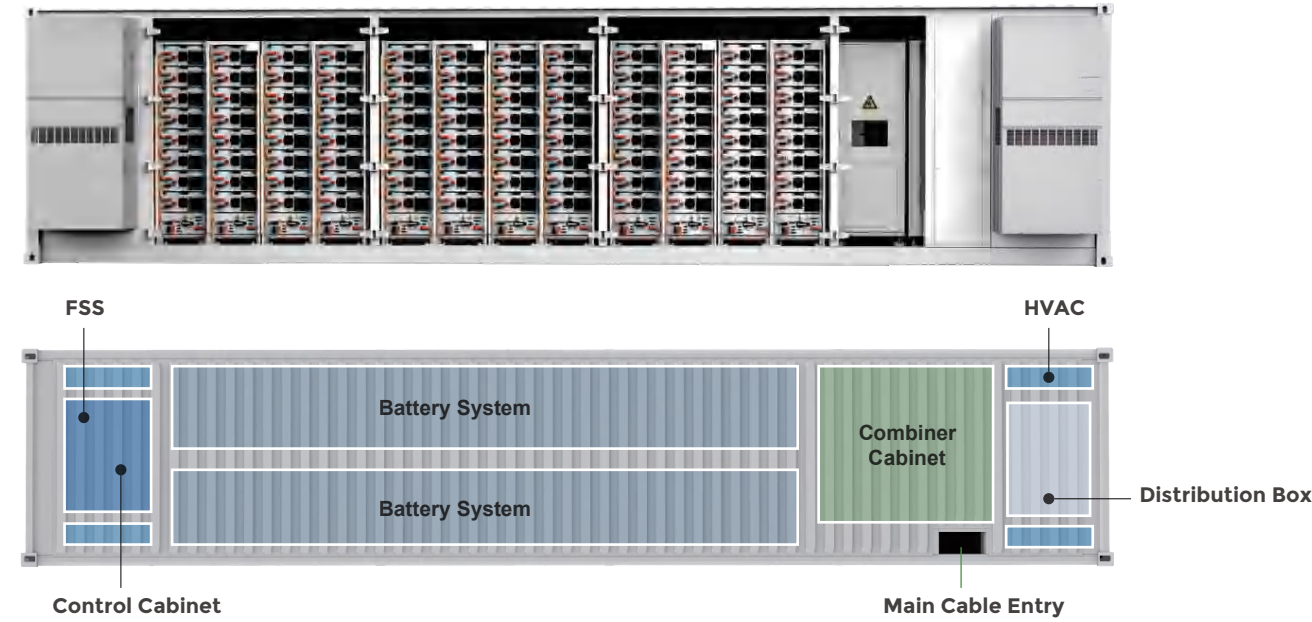
- Flexible configuration, add 3 levels of BMS, can support multiple clusters of batteries connected in parallel;
- Easy installation, small size and small footprint;
- Optional PV DC-coupled access to match a hub-and-spoke MPPT controller.

GWE200-400-A GWE225-400-A



Product Model		GWE200-400-A	GWE225-400-A
Battery DC side parameters	Cell Type	LFP 280Ah	LFP 314Ah
	Capacity and Configuration	14.336kWh/1P16S	16.077kWh/1P16S
	Capacity and Number	200kWh/ 14	225kWh/ 14
	Charge/discharge ratio	≤0.5C	
	Depth of discharge	100%DOD	
	Number of cycles	>8000@70%	
	Number of temperature sensors	112	
Inverter DC side parameters	rated current	200A	
	rated power	143.4kW	
PV DC Side Parameters	Number of Input Circuits	2-way (optional 2 PV MPPT controllers)	
	rated current	168Ax2 road	
	rated power	120kWx2 road	
System parameters	voltage range	627V-806V	
	rated voltage	716.8V	
	operating temperature	-30~55°C	
	relative humidity	0~95%RH, no condensation	
	Dimensions (W×D×H)	1050×1050×2350mm	
	weights	2100kg	
	Protection level	IP54 for whole machine	
	noise	<70dB	
Cooling method		air-cooled	

Note: Recommended optional PV MPPT controller parameters can be found on pages P15-16 of this manual.



DC Side			
System	Module	Rack	Bank
Rated Capacity	280Ah	280Ah	6720Ah
Rated Operating Voltage	64V	512V	512V
Voltage Range	56~72V	448~576V	448~576V
Rated Charging & Discharging Current	140A	140A	3360A
Rated Energy	17.92kWh	143.36kWh	3440kWh
AC Side			
Power		2400KVA	
Input Voltage		480V	
Input Frequency		60Hz	
Power Factor		0.99	
Output Voltage		480V	
Output Frequency		60Hz	
System Parameters			
BESS Container Dimensions (W*D*H)		12192*2438*2896mm	
UPS Container Dimensions (W*D*H)		12192*2438*2896mm	
BESS Container Weight		42t	
UPS Container Weight		20t	
Ingress Rating		IP54/NEMA3R	
Operating Temperature		-30°C~60°C	
Operating Humidity		0~95%,RH	
Altitude		≤2000m	
BMS Communication		CAN/RS485/Ethernet	
UPS Communication Protocol		Modbus RTU, Modbus TCP/IP	
Compliance and Standards			
UPS Container		CSA SPE-1000, IEC 62040-2 (category C3), ISO 9001: 2008, ISO14001: 2004	
BESS Container		IEC62619, UN38.3, UL1973, UL9540, UL9540A	







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