EAST GROUP CO., LTD.

ESS Brochure

Portable Power Station

Off-Grid Inverter

Energy Storage Battery

Energy Storage System

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Portable Power Station
AP0510

500W | 1000Wh

- Extra long cycle, reached 8000+, used ≥10 years
- Extra large power, use with confidence
- Lightweight & convenient, flexible arrangement
- Lithium ion phosphate battery system
- Multiple output interfaces, pure sine waves, matching multiple electrical loads

Appearance

Technical Specifications

MODEL	AP0510
Output	
AC output	Pure Sine Wave
	500W
	230Vac(50/60Hz)
UPS transfer time	≤20ms
USB-A(×2 output)	5V 3A(constant voltage), Max. 15W/each
USB-C(×1 output)	20W
DC5521(×4 output)	12V±3% Max. 4A
Parallel	Na
Others	
Display	LED
Material	Metal
Cooling mode	Air cooling
Switch	Button
IP rating	IP20
Dimension(L×W×H)(mm)	320×135×245
Net weight (kg)	≈10.5
Battery	
Rated power	1004.8Wh
Cell material	LFP
Cycle life	After 8000 cycles, remaining capacity ≥70%
Protections	High temperature, low temperature, overdischarge, overcharge, overload, short circuit, overcurrent protection
Input	
PV voltage range	11~55V
PV current	Max. 10A
AC input power	500W
AC input voltage	220~240Vac; 50/60HZ
Optimal ambient temperature	20~30°C
Discharge ambient temperature	-10~60°C
Charging ambient temperature	0~50°C
Storage ambient temperature	-20~45°C(20~30°C suitable)
Certification	UN38.3

Portable Power Station
AP1020

1000W | 2000Wh

- Extra long cycle, reached 8000+, used ≥10 years
- Extra large power, use with confidence
- Lightweight & convenient, flexible arrangement
- Lithium ion phosphate battery system
- Multiple output interfaces, pure sine waves, matching multiple electrical loads

Appearance

Technical Specifications

MODEL	AP1020
Output	
AC output	Pure Sine Wave
	1000W
	230Vac(50/60Hz)
UPS transfer time	≤20ms
USB-A(×2 output)	5V 3A(constant voltage), Max. 15W/each
USB-C(×1 output)	20W
DC5521(×4 output)	12V±3% Max. 4A
Parallel	Na
Others	
Display	LED
Material	Metal
Cooling mode	Air cooling
Switch	Button
IP rating	IP20
Dimension(L×W×H)(mm)	315×210×295
Net weight(kg)	≈18.5
Battery	
Rated power	2009.6Wh
Cell material	LFP
Cycle life	After 8000 cycles, remaining capacity ≥70%
Protections	High temperature, low temperature, overdischarge, overcharge, overload, short circuit, overcurrent protection
Input	
PV voltage range	11~55V
PV current	Max. 15A
AC input power	1000W
AC input voltage	220~240Vac; 50/60HZ
Optimal ambient temperature	20~30°C
Discharge ambient temperature	-10~60°C
Charging ambient temperature	0~50°C
Storage ambient temperature	-20~45°C(20~30°C suitable)
Certification	UN38.3

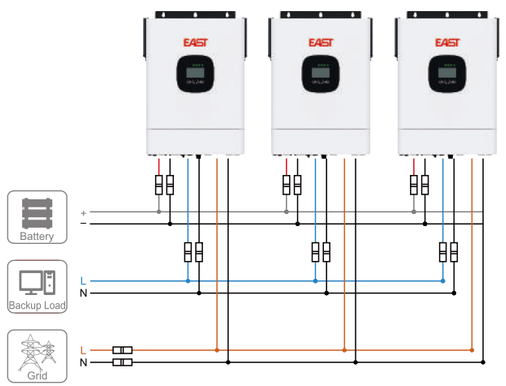
Off-Grid Inverter
GF3K24H/GF3K24L/GF5K48H/GF5K48L

Single phase

- Flexible setting of multiple working modes according to preferences
- Real time remote monitoring system via WiFi module, easy operation and maintenance
- Graphical LCD and keypad design, user-friendly operation interface
- High charge/discharge efficiency, compatible with lithium battery and lead-acid battery

Typical application

Parallel application



Inverter specification

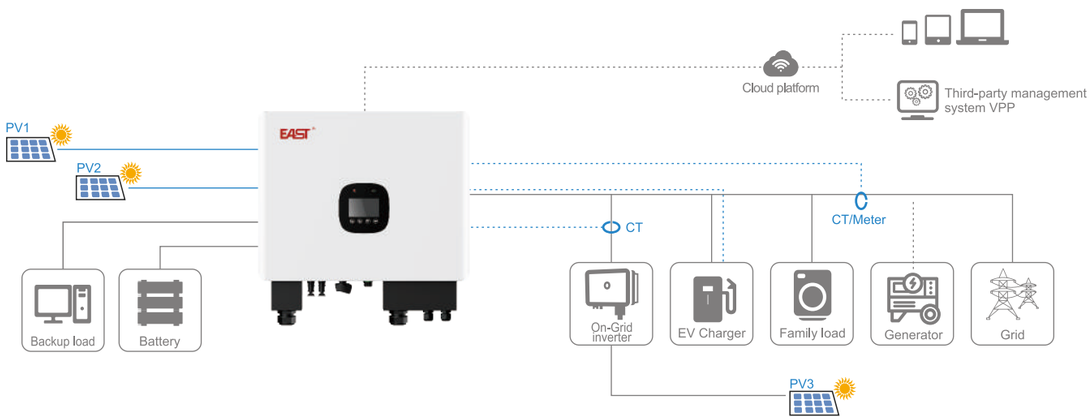
MODEL	GF3K24H	GF3K24L	GF5K48H	GF5K48L
Rated power	3000VA/3000W		5000VA/5000W	
Parallel function	No		Yes, 6 units max	
AC input				
Rated input voltage	230VAC	120VAC	230VAC	120VAC
Input voltage range	170~280VAC PC 90~280VAC home application	90~140VAC	170~280VAC PC 90~280VAC home application	90~140VAC
Rated input frequency	50/60Hz self-adapting			
Input frequency range	40~65Hz			
Rated input current	20A	36A	32A	61.33A
Max. input current	30A	40A	40A	80A
AC output				
Rated AC output voltage	230VAC	120VAC	230VAC	120VAC
Output settable voltage	220V/230V/240V	100V/110V/120V	220V/230V/240V	100V/110V/120V
Output settable frequency	50Hz/60Hz			
Rated AC output current	13.05A	25.00A	21.70A	41.67A
Overload capacity	Inverter output: 10s@110%~150% rated load; 5s@≥150% rated load; 100ms@≥200% rated load Power grid output: 5s@≥150% rated load; 100ms@≥200% rated load			
THDv	<5%, linear load; <10%, non-linear load			
Efficiency(peak value)	93%			
Surge power	6000VA, 5 cycles		10000VA, 5 cycles	
Switching time	10ms(Typical)			
Battery				
Battery type	Lead-acid battery/lithium battery			
Rated voltage	24VDC		48VDC	
Charging voltage	27VDC(default) 24~29.2VDC settable		54VDC(default) 48~58.4VDC settable	
Overcharge protection voltage	30.2VDC		60.5VDC	
Rated discharge current	130A		113.7A	
PV/AC charging				
PV charging	MPPT			
Max. PV plate power	4000W		6000W	
Max. PV plate open circuit voltage	450VDC			
MPPT operation range voltage	120~430VDC			
Max. PV input current	18A		27A	
Max. PV charging current	100A			
Max. AC charging current	100A			
Max. battery charging current	100A			
Others				
Dimension(W×D×H)(mm)	322×122×390		342×122×471	332×142×420
Net weight(kg)	9		11	12
Operating environment	-10℃~50℃			
IP rating	IP20			
Protections	Input over/under voltage protection, input over/under frequency protection, output overload, output short-circuit, radiator overtemperature protection, fan fault detection etc.			
Communication interfaces	USB/RS485, dry contact, WiFi(optional)		USB/RS232/RS485, dry contact, WiFi(optional)	USB/RS485, dry contact, WiFi(optional)

Residential Hybrid Inverter
EAHI-3000-6000-SL

Single phase

- IP66 all-aluminum chassis, adaptable to outdoor environment
- Flexibly settable charge/discharge time section and power, peak load shaving
- High charge/discharge efficiency, compatible with lithium battery and lead-acid battery
- APP real time monitoring, easy maintenance

Typical application



Hybrid inverter specification

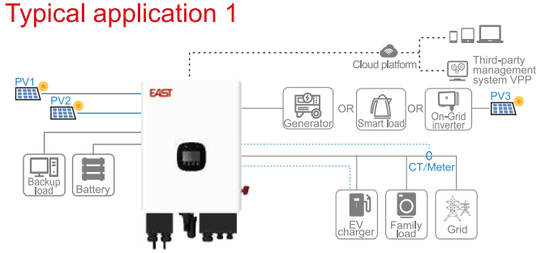
MODEL	EAHI-3000-SL	EAHI-3600-SL	EAHI-5000-SL	EAHI-6000-SL
PV input				
Max. input power	4680W		6500W	7800W
Max. input voltage	550Vdc			
Rated input voltage	360Vdc			
Start-up voltage	150Vdc			
Min. operating voltage	100Vdc			
MPPT voltage range	100~540Vdc			
Max. input current per MPPT	16A		16A/16A	
Max. short-circuit current per MPPT	24A		24A/24A	
Number of MPPT	1		2	
Number of input strings per MPPT	1		1/1	
Battery input				
Battery type	Li-ion, Lead-acid battery			
Voltage range	42~58Vdc			
Max. charge current	66A	75A	100A	100A
Max. discharge current	66A	75A	100A	120A
Charging curve	3 Stages/Equalization			
Lithium battery charging strategy	BMS self-adaption			
AC input(grid)				
Grid type	Single phase(L/N/PE)			
Input voltage range	184~276Vac			
Input frequency range	50±5Hz/60±5Hz			
Max. input current	21.8A	26.2A	36.5A	40A
AC output(grid)				
Rated output power	3000W	3600W	5000W	6000W
Max. apparent output power	3000VA	3600VA	5000VA	6000VA
Grid system mode	Single phase(L+N+PE)			
Rated output voltage	220Vac/230Vac			
Rated output frequency	50Hz/60Hz			
Rated output current	13.6A/13.0A	16.4A/15.7A	22.7A/21.8A	27.3A/26.1A
Max. output current	13.6A	16.4A	22.7A	27.3A
Power factor	>0.99(0.8 leading~0.8 lagging)			
THDi	≤3%(@ Rated Power)			
AC output(back-up)				
Rated output power	3000W	3600W	5000W	6000W
Max. apparent power	3000VA	3600VA	5000VA	6000VA
Output system mode	Single phase(L+N+PE)			
Rated output voltage	230Vac(208/220/240Vac settable)			
Rated output frequency	50Hz/60Hz			
Rated output current	13.0A	15.7A	21.8A	26.1A
Max. output current	14.4A	17.3A	24.0A	28.8A
THDv	≤3%(linear load)			
Transfer time	≤10ms			
Efficiency				
Max. efficiency	97.8%			
MPPT efficiency	99.9%			
Protections				
Protections	Over/under voltage, over/under-frequency, over load, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance, anti islanding, surge protection			
Output overvoltage protection	DC Type II/AC Type III			
Others				
Communications	RS485, WIFI			
Dimensions(W×H×D)(mm)	548x440x197			
Net weight(kg)	21.4		24.8	
Topology	High frequency isolation(for battery)			
IP rating	IP66			
Operating temperature	-25°C~+60°C(>45°C derating)			
Cooling mode	Natural cooling			
Altitude	4000m			
Noise level at 1 m	≤25dB			
Installation mode	Wall-mounted			
Standards				
Safety regulation	IEC/EN 62109-1/-2, AS62109			
EMC	EN 61000-6-1/-2/-3/-4			
Grid connection	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, AS4777.2, NRS097-2-1, EN 50549-1			

Residential Hybrid Inverter
EAHI10-12KSL

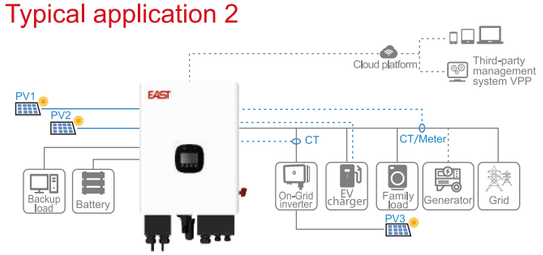
Single phase

- Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- Supports multiple inverters with EPS output in parallel, and can be expanded to small industrial and commercial applications
- Support RSD and AFCI optional configurations to provide safer protection for the system
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation

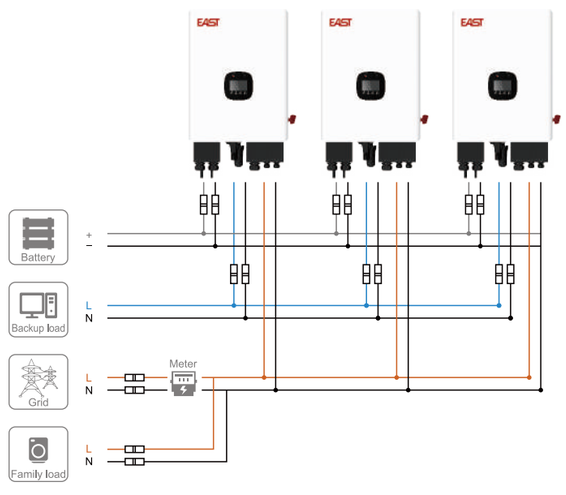
Typical application 1



Typical application 2



Parallel application



Hybrid inverter specification

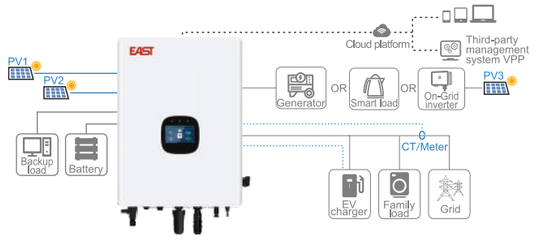
MODEL	EAHI10KSL	EAHI12KSL
PV input		
Max. input power	18kW	18kW
Max. open-circuit voltage	550Vdc	
Rated input voltage	360Vdc	
Start-up voltage	150Vdc	
Min. operating voltage	100Vdc	
MPPT voltage range	100~540Vdc	
Full power MPPT voltage range	300V~500V	
Max. input current per MPPT	30A/30A	
Max. short-circuit current per MPPT	40A/40A	
MPPT quantity	2	
Number of input strings per MPPT	2/2	
Battery input		
Battery type	Li-ion battery/Lead acid battery	
Voltage range	42~58Vdc	
Max. charge/discharge current	180A/180A	250A/250A
AC input and output(grid)		
Max. apparent power of grid	15kVA	18kVA
Max. input current	68.2A	81.8A
Input voltage range	184~276Vac	
Input frequency range	50±5Hz	
Rated output power	10kW	12kW
Max. output apparent power	10kVA	12kVA
Rated output voltage	1/N/PE, 220/230Vac	
Rated output frequency	50Hz	
Rated output current	45.5A/43.5A	54.5A/52.2A
Max. output current	45.5A	54.5A
Power factor	>0.99(0.8 leading~0.8 lagging)	
THDi	≤3%(@ rated power)	
Generator input		
Max. input power	10kW	12kW
Max. input current	45.5A	54.5A
AC output(back-up)		
Rated output power	10kW	12kW
Max. apparent power	10kVA	12kVA
Rated output voltage	1/N/PE, 220Vac/230Vac	
Rated output frequency	50Hz	
Rated output current	45.5A/43.5A	54.5A/52.2A
Max. output current	45.5A	54.5A
THDv	≤3%(linear load)	
Switching time	≤20ms	
Efficiency		
Max. efficiency	97.8%	
MPPT efficiency	99.9%	
Protections		
Protections	Over/under voltage, over/under-frequency, overload, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance detection, anti-islanding, surge protection	
Surge protection	DC Type Ⅱ/AC Type Ⅱ	
Others		
Dimensions(W×H×D)(mm)	450x600x270	
Weight(kg)	45	
Topology	High frequency isolation(for battery)	
IP rating	IP66	
Operating temperature	-25℃~+60℃	
Cooling mode	Smart cooling	
Altitude	3000m	
Noise level at 1m	≤55dB	
Installation method	Wall-mounted	
Standards		
Safety regulation	IEC/EN 62109-1/-2, AS62109	
EMC	EN 61000-6-1/-2/-3/-4	
Grid connection	NRS097-2-1:2017	

Residential Hybrid Inverter EAHI10-20KTH

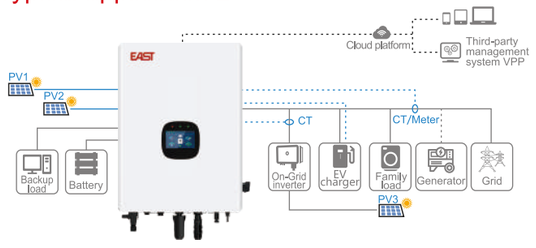
Three phase

- Supports PV inverter, generators, and microgrid inputs, suitable for new and modified photovoltaic and microgrid systems
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation
- App real-time monitoring, supports online remote OTA upgrades, easy operation and maintenance
- Support RSD and AFCI optional configurations to provide safer protection for the system

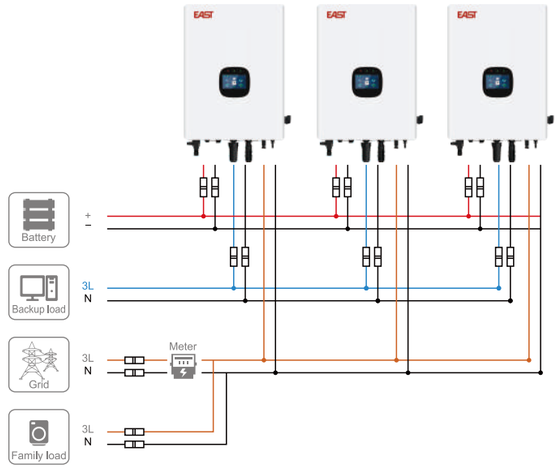
Typical application 1



Typical application 2



Parallel application



Hybrid inverter specification

MODEL	EAHI10KTH	EAHI15KTH	EAHI20KTH
PV input			
Max. input power	20kW	30kW	30kW
Max. input voltage		1000Vdc	
Rated input voltage		650Vdc	
Start-up voltage		180Vdc	
Min. operating voltage		160Vdc	
MPPT voltage range		160~950Vdc	
Full power MPPT voltage range		625~800V	
Max. input current per MPPT	16A/16A	16A/32A	
Max. short-circuit current per MPPT	24A/24A	24A/48A	
Number of MPPTs		2	
Number of input strings per MPPT	1/1	1/2	
Battery input			
Battery type		Lithium battery	
Voltage range		150~600Vdc	
Max. charge/discharge current	25A	37.5A	50A
AC input and output(grid)			
Max. apparent power of grid	15kVA	22.5kVA	30kVA
Max. input current	22.8A	34.2A	40.0A
Input voltage range		320~480Vac	
Input frequency range		50±5Hz/60±5Hz	
Rated output power	10kW	15kW	20kW
Max. output apparent power	11kVA	16.5kVA	22kVA
Rated output voltage		3/N/PE, 380Vac/400Vac	
Rated output frequency		50Hz/60Hz	
Rated output current	15.2A/14.4A	22.8A/21.7A	30.4A/29.0A
Max. output current	16.7A/15.8A	25.1A/23.8A	33.5A/31.8A
Power factor		>0.99(0.8 leading~0.8 lagging)	
THDi		≤3%(@ rated power)	
Generator input			
Max. input power	10kW	15kW	20kW
Max. input current	15.2A	22.8A	30.4A
AC output(backup)			
Rated output power	10kW	15kW	20kW
Max. apparent power	10kVA	15kVA	20kVA
Rated output voltage		3/N/PE, 380Vac/400Vac	
Rated output frequency		50Hz/60Hz	
Rated output current	15.2A/14.5A	22.8A/21.7A	30.4A/29.0A
Max. output current	15.2A	22.8A	30.4A
THDv		≤3%(linear load)	
Switching time		≤10ms	
Efficiency			
Maximum efficiency		98.2%	
MPPT efficiency		99.9%	
Protections			
Protections		Over/under voltage, over/under frequency, overload, output short-circuit, over-temperature, residual current monitoring unit, output overcurrent, insulation resistance detection, anti-islanding, surge protection	
Surge protection		DC Type II/AC Type III	
Others			
Dimensions(W×H×D)(mm)		500×680×270	
Packaged dimensions (W×H×D)(mm)		615×885×370	
Net weight(kg)		41	
Gross weight(kg)		47	
Parallel operation		Supports 6 units in parallel connection	
Topology		Non-isolated	
IP rating		IP66	
Operating temperature		-25°C~+60°C	
Cooling mode	Natural cooling	Smart cooling	
Altitude		3000m	
Noise level(1m)	≤25dB	≤45dB	≤50dB
Installation method		Wall-mounted	
Standards			
Grid connection		VDE 0126, EN50549, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018	
Safety regulation		IEC/EN 62109-1/-2	
EMC		EN 61000-6-1/-2/-3/-4	

C&I Energy Storage System
EASS125K/261kWh-C

All in one

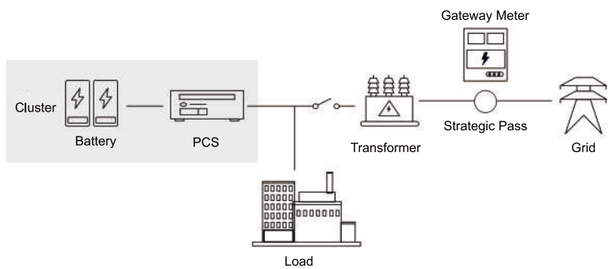
Intelligent group series architecture, one cluster one management PCS three level topology, the whole machine energy conversion efficiency >90%, liquid cooling temperature control, battery temperature difference <3°C, auxiliary power consumption is reduced by 30%, the system life is extended by 2 years

All in one design, landing is grid connection, no debugging of high energy density cell, system area reduced by 40%, no transformer design, lightweight

Long-life LFP battery cells with >8000 cycles, equipped with explosion venting design and perfluorohexanone fire protection, provide multiple safety guarantees and support off-grid load carrying, serving as a backup powersource for critical loads

Online monitoring of cloud platform, real-time warning of system faults, support remote and local upgrade of key equipment, intelligent maintenance and high-precision BMS, accurate calibration, and no expert on-site maintenance

Product Application Scenarios



Specification

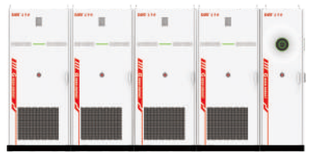
MODEL	EASS125K/261kWh-C
DC side parameters	
Cell	LFP3.2V/314Ah
System battery configuration	1P260S
Rated capacity	261kWh
Rated voltage	832Vdc
Voltage range	650~936Vdc
On-grid AC side parameters	
Rated power	125kW
Rated voltage	400Vac
Voltage range	-20%~+15%
Rated frequency	50/60Hz
Frequency range	45~55Hz/55~65Hz
Power factor	±1
THDi	≤3%
Overload capacity	110%
Off-grid AC side parameters	
Rated power	125kW
Rated voltage	400Vac
Rated frequency	50/60Hz
THDv	≤3%
System parameters	
AC wiring mode	Three phase four line
System efficiency	≥90.0%
Charge/discharge rate	0.5P
Cycles	≥8000@25°C
IP rating	Battery protection@IP67, PCS protection@IP66, system protection@IP54
Operating temperature	-30°C~55°C
Relative humidity	0~95%RH(non-condensing)
Altitude	<3000m(drop over 3000m)
Cooling method	Liquid cooling
Fire protection system	Perfluorohexanone(PACK Grade)+active monitoring+water fire protection
Communication interface	LAN, RS485, TCP/IP, ICE61850
Dimensions(W×H×D)(mm)	1000x2350x1350
Weight(kg)	≤2500

C&I Energy Storage System
EAPVESS130K261KWH-C

Diesel-PV-ESS I All-in-one

- High protection level: cabinet IP54, C4 anti-corrosion; Inverter IP66 protection, battery PACK IP67 protection, can be used in a variety of harsh scenarios
- Intelligent monitoring: real-time intelligent power balance control, energy management and scheduling, information monitoring and early warning, safe and reliable system
- High conversion efficiency: the PV-ESS inverter adopts SiC solution on a large scale, with the highest conversion efficiency reaching 98.2%, reducing the kWh cost
- Modular design: the system consists of battery cabinet, power distribution cabinet, and EMS modules, which can be flexibly configured and support dynamic expansion
- Three-level fire-fighting strategy: Level 1 power off and shutdown protection, Level 2 perfluorohexanone gas start, Level 3 water spray fire-fighting to prevent re-ignition
- Application scenarios: industrial and commercial energy storage, emergency backup power supply, Diesel-PV-ESS microgrid, etc.

System Expansion



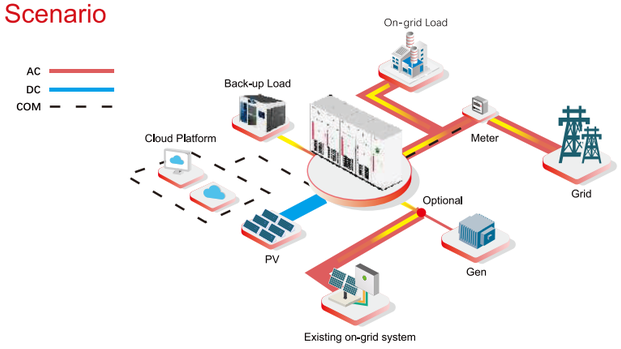
Flexible expansion of DC side
(1 distribution cabinet + 4 battery cabinets)
130kW/261-1044kWh system

4 parallel connections

4 parallel connections

Backup side AC 4 parallel connections
130kW/261kWh*4 system

Application Scenario



Specification

MODEL	EAPVESS130K261KWH-C
Battery parameters	
Cell	314Ah
Configuration	1P260S
Rated energy	261kWh
Rated voltage	832Vdc
Voltage range	728~949Vdc
Max. expandable quantity	4 clusters
PV parameters	
Max. input power	260kW
Max. input voltage	950Vdc
Rated input voltage	810Vdc
Starting voltage	220Vdc
Max. input/short-circuit current	52/55Hz
MPPT quantity	6
Max. number of MPPT strings	3
Grid parameters	
Rated input/output power	260/130kW
Voltage range	380/400Vac(-20%~20%), 3/N/PE
Rated input current	394A/376.8A
Rated output current	197A/188.4A
Power factor	>0.99(0.8 lead~0.8 lag)
THDi	<3%@rated power
Diesel engine parameters	
Rated power	130kW
Voltage range	380/400Vac(-20%~20%), 3/N/PE
Rated current	197A/188.4A
Backup parameters	
Rated power	130kW
Rated voltage	380/400Vac, 3/N/PE
Rated frequency	50/60Hz
Rated current	197A/188.4A
THDi	<3%@linear rated power
System general parameters	
On-grid and off-grid switching time	<20ms
Max. conversion efficiency	99%
Europe/MPPT efficiency	98.2%/99.9%
IP rating	Battery cabinet(IP54), battery pack(IP67), power distribution cabinet(IP20), PV-ESS inverter(IP65), power distribution box(IP55)
Operating temperature	-30~60℃(>45℃ derating)
Relative humidity	<95%RH(non-condensing)
Altitude	<4000m(>2000m derating)
Cooling method	Battery cabinet@Liquid cooling/PV-ESS inverter@air cooling
Noise	<65dB
Fire protection system	Cell level+cabinet level gas fire-fighting(perfluorohexanone)/aerosol+water fire-fighting
Wired/wireless communication	Ethernet(1 Modbus-TCP), RS485(1 Modbus-RTU)/4G/WIFI
Human-computer interaction	LED, APP, Web
Standards	EC 62477-1:2012+AMD1:2016; EN 62477-1:2012+A11:2014+A1:2017+A12:2021; EN IEC 61000-6-2:2019; EN 50549-2:2019+A1:2023; EN 50549-10:2022 Type B; EN IEC 61000-6-4:2021; EN 62920:2017/A1:2021; EN 50549-2:2019 + A1:2023+; EN 50549-10:2022 Type A
Dimensions(WxHxD)(mm)	1000x2250x1350@battery cabinet, 800x2250x1350@power distribution cabinet
Weight(kg)	≤2000@battery cabinet, ≤1000@power distribution cabinet

Residential Energy Storage Battery

Residential energy storage systems offer high-quality new energy products that are simple to install, easy to operate, safe to use, and environmentally friendly, suitable for powering household appliances. They power household appliances, storing grid electricity in batteries during off-peak periods and then transferring it to the grid during peak periods. Their modular design allows multiple batteries to be connected in parallel to expand capacity, ensuring greater storage capacity for both household use and grid delivery.

Product types include rack-mounted, stacked, vertical, and wall-mounted series, compatible with mainstream inverters on the market. Voltage levels include 24V, 48V, and 750V. Basic battery system capacities include 100Ah, 200Ah, and 314Ah. Multiple parallel groups are supported.

48V100AH Rack-mounted LiFePO4 Battery System

Model		EHB48100R16S1P	EHB48100R16S2P	EHB48100R16S3P	EHB48100R16S4P
Cathode material		LiFePO4			
Rated voltage/V		51.2			
Rated capacity/Ah		102	204	306	408
Rated energy/kWh		5.22	10.44	15.67	20.89
Standard parallel unit/P		1	2	3	4
Output power/kW		5	10	10	10
Charge voltage/V		58.4			
Operating voltage range/V		41.6~58.4			
Max. charge current/A		50	100	150	200
Max. discharge current/A		100	200	200	200
Operating temperature/°C	Charge temperature/°C	0~55			
	Discharge temperature/°C	-20~55			
Weight/kg		46	92	138	184
Dimension(W×D×H)(mm)		483×450×153	483×450×306	483×450×459	483×450×612
IP rating		IP21			
Certification		UN38.3, CE-EMC			
Cooling method		Natural cooling			
Communication		CAN/RS485, Bluetooth+APP			
Cycle life		≥6000 Cycles@0.5C/90%DOD@70%EOL, 25±2°C			
Display configuration		ON/OFF button, SOC indicator light(button LCD optional)			

48V100AH Stacked LiFePO4 Battery System

Model		EHB48100D16S1P	EHB48100D16S2P		EHB48100D16S3P		EHB48100D16S4P	
Cathode material		LiFePO4						
Rated voltage/V		51.2						
Rated capacity/Ah		102	204		306		408	
Rated energy/kWh		5.22	10.44		15.67		20.89	
Standard parallel unit/P		1	2		3		4	
Output power/kW		5	5	10	5	10	5	10
Charge voltage/V		58.4						
Operating voltage range/V		41.6~58.4						
Max. charge current/A		50	100		120	150	120	200
Max. discharge current/A		100	120	200	120	200	120	200
Operating temperature/°C	Charge temperature/°C	0~55						
	Discharge temperature/°C	-20~55						
Weight/kg		11+50×1	11+50×2		11+50×3		11+50×4	
Dimension(W×D×H)(mm)		580×390×380	580×390×560		580×390×740		580×390×920	
IP rating		IP54						
Certification		UN38.3, CE-EMC						
Cooling method		Natural cooling						
Communication		CAN/RS485, Bluetooth+APP						
Cycle life		≥6000 Cycles@0.5C/90%DOD@70%EOL, 25±2°C						
Display configuration		Quick-connect terminal, ON/OFF button, SOC indicator light						

Residential Energy Storage Battery

LV Wall-mounted/Floor-mounted Battery(IP65)

Model		EHB48100G16S1P05K03	EHB48206G16S1P10K01	EHB48314G16S1P08K01
Cathode material		LiFePO4		
Rated voltage/V		51.2	51.2	51.2
Rated capacity/Ah		102	206	314
Rated energy/kWh		5.22	10.55	16.07
Standard parallel unit/P		1	1	1
Output power/kW		5	10	8
Charge voltage/V		58.4	58.4	58.4
Operating voltage range/V		41.6~58.4	41.6~58.4	41.6~58.4
Max. charge current/A		100	100	160
Max. discharge current/A		100	200	200
Operating temperature/°C	Chargetemperature /°C	0~55		
	Discharge temperature/°C	-20~55		
Weight/kg		53	98	122
Dimension(W×D×H)(mm)		440×170×690 (750 with wheels)	470×235×765 (825 with wheels)	460×230×850 (900 with wheels)
IP rating		IP65		
Certification		UN38.3, CE-EMC		
Cooling method		Natural cooling		
Communication		CAN/RS485, bluetooth+APP		
Cycle life		≥6000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C		≥8000 Cycles@0.5C/90%DOD@ 80%EOL, 25±2°C
Display configuration		ON/OFF button, LCD touchscreen		

5.22kWh　　10.44kWh　　16.07kWh

LV Floor-mounted Battery(IP21)

Model		EHB24200Y8S2P	EHB48100Y16S1P	EHB48200Y16S2P	EHB48314Y16S1P
Cathode material		LiFePO4			
Rated voltage/V		25.6	51.2	51.2	51.2
Rated capacity/Ah		204	102	204	314
Rated energy/kWh		5.22	5.22	10.44	16.07
Standard parallel unit/P		1	1	1	1
Output power/kW		3	5	5 / 10	5 / 8
Charge voltage/V		29.2	58.4	58.4	58.4
Operating voltage range/V		20.8~29.2	41.6~58.4	41.6~58.4	41.6~58.4
Max. charge current/A		100	100	100	100 / 160
Max. discharge current/A		100	100	100 / 200	100 / 200
Operating temperature/°C	Charge temperature/°C	0~55			
	Discharge temperature/°C	-20~55			
Weight/kg		53	53	98	122
Dimension(W×D×H)(mm)		440×170×690(750 with wheels)		820×170×660 (710 with wheels)	460×230×850 (900 with wheels)
IP rating		IP21			
Certification		UN38.3, CE-EMC			
Cooling method		Natural cooling			
Communication		CAN/RS485, Bluetooth+APP			
Cycle life		≥6000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C			≥8000 Cycles @0.5C/90%DOD@ 80%EOL, 25±2°C
Display configuration		ON/OFF button, LCD touchscreen			

HV 750V314AH Stacked Battery

Model		EHB48314R10S1P	EHB48314R10S2P	EHB48314R10S3P	EHB48314R10S4P
Cathode material		LiFePO4			
Rated voltage/V		750			
Rated capacity/Ah		314	628	942	1256
Rated energy/kWh		10.04	20.09	30.14	40.19
Standard parallel unit/P		1	2	3	4
Output power/kW		5	10	15	20
Charge voltage/V		1000			
Operating voltage range/V		600~1000			
Max. charge current/A		8.3	16.6	24.9	33.2
Max. discharge current/A		8.3	16.6	24.9	33.2
Operating temperature/°C	Charge temperature/°C	0~55			
	Discharge temperature/°C	-20~55			
Weight/kg		15+85×1	15+85×2	15+85×3	15+85×4
Dimension(W×D×H)(mm)		720×410×495	720×410×745	720×410×995	720×410×1245
IP rating		IP66			
Certification		UN38.3, CE-EMC			
Cooling method		Fan cooling			
Communication		CAN/RS485			
Cycle life		≥8000 Cycles@0.5C/90%DOD@80%EOL, 25±2°C			
Display configuration		Quick-connect terminal, ON/OFF button, SOC indicator light			

CORE BUSINESS

Power Supply
UPS/EPS power supply, rail transit power supply, special power supply

Smart Energy
Solar inverter, EV charging piles, power generation system, sodium-ion/lithium-ion battery

Digital Industry & Smart Energy Integrated Solutions Provider

Data Center
Cloud computing data center, IT infrastructure, precision air conditioner

Energy Storage
Energy storage system, PCS, EMS, BMS, micro-grid network and smart distribution network

Digital technology helps all walks of life with smart upgrade!

STRONG RESEARCH & DEVELOPMENT TEAM

2000+ Employees

600+ R&D Engineers

800+ Patents

70+ Core Technology