Global Digital Industry

and Smart Energy Integrated
Solutions Provider

EAST GROUP CO., LTD.

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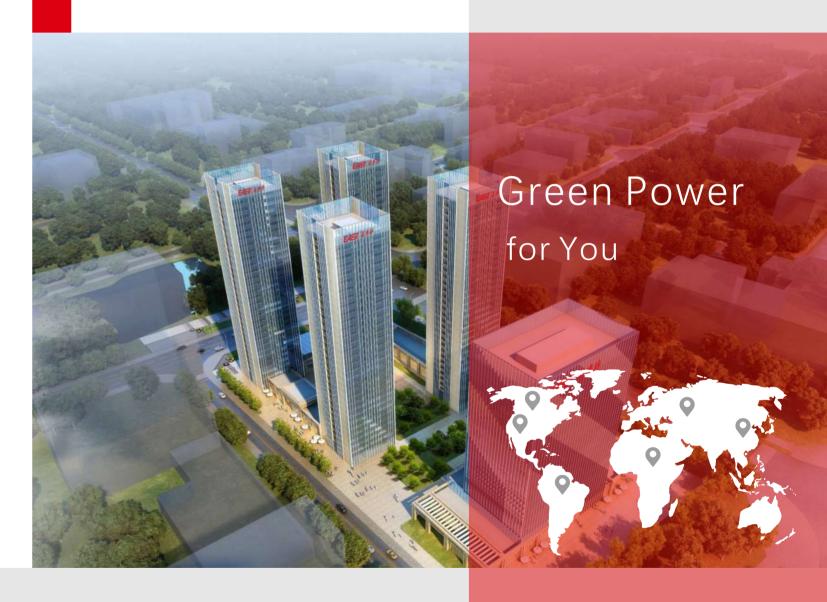




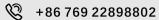












No.6 Northern Industry Road, Songshan Lake Sci&Tech Industrial Park, Dongguan city, Guangdong, China (523808)



Application

- · Power Generation side
- · Grid Side
- User Side

Energy Storage Solutions

- · Public Utilities
- · Requirement Response
- · Industrial, Commercial, And Residential Energy Storage

Company Introduction

East is engaging in 3 strategic business sectors covering smart power supply (UPS/EPS power supply, rail transit power supply, special power supply), data center(cloud computing data center, edge computing data center, IT infrastructure), smart energy(photovoltaic inverters and power generation systems, lithium batteries and energy storage systems, charging piles and systems, micro-grid network and smart distribution network), and is a provider of global digital industry and smart energy integrated solution.

EAST's products and solutions have been applied to power supply system of Qinghai-Tibet Railway, the first unmanned subway in US, Beijing S1 line, Daxing International Airport; data centers of Baidu, Tencent, Alibaba, IBM, Industrial and Commercial Bank of China, Construction Bank, Agricultural Bank of China, Bank of China; and EV charging system for G20 summit, Hong Kong-Zhuhai-Macao Bridge.



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Communication Stick



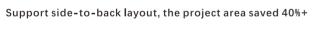


Product Advantages



PACK Class IP67, box class IP55, C5 anti-corrosion, no fear of harsh environment







The whole machine system prefabricated cabin was delivered, shortening the construction period by 30%



Three-level topology, the maximum efficiency of 99%, better power quality

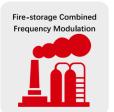


314Ah large cell design, reduce the cost of 16%+



PACK 1P104S design, a 20-foot standard container









Product specifications	2.5MW/5MWh Centralized energy storage system(liquid-cooled container)			
Battery parameters				
Battery type	LFP3.2V314Ah			
Voltage range	1040~1500V			
Rated capacity	5015.9616kWh			
System battery configuration	2P416Sx6			
	UN38.3, UL1973, UL9540A, IEC62620, IEC62619, UL1973, UN3536			
Approval standards	UL9540A, IEC62619, EN61000, EN62477, IEC63056, IEC 62933-5-2,			
	UL9540DNV Bankability, NFPA 72, NPFA 69, NFPA 70E, NFPA 855, HMA			
The AC-side PCS parameters				
AC-side rated power	2500kW			
AC-side voltage distortion rate	<3%			
AC-side rated voltage	690Vac			
Voltage range	586.5~759Vac			
Power factor	>0.99			
Reactive power is of an adjustable power range	-105%~105%			
Voltage frequency	50Hz(46.5~51.5Hz)			
Isolation method	Transformer isolation			
Approval standards	IEC62109-1, IEC62109-1-2, IEC62477, IEC61000			
Transformer parameters				
Power rating	2750kVA			
Voltage ratio	(37+2x2.5%)kV/0.69kV			
Group	Dy11			
Approval standards	IEC 60076, IEC 62271			
System parameter				
Converter booster integrated machine size(mm)	9087x2896x2438			
Container size(mm)	6058x2896x2438			
Weight of the converter booster machine(t)	20			
Battery container weight(t)	40			
IP rating	IP55(DC side), IP54(AC side)			
Operating temperature range	-30~55℃			
Operating humidity range	0-95%(no condensation)			
Maximum work altitude	4000m			
Battery temperature control mode	Liqukd cooling			
Converter cooling mode	Intelligent air cooling			
Fire protection system(shipping container)	Aerosol+water fire protection+explosion-proofan(combustiblegas)			
Communication interfaces	CAN, RS485, Ethernet			
External system communication protocol	ModbusTCP, IEC61850			





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 high efficiency Allinone



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



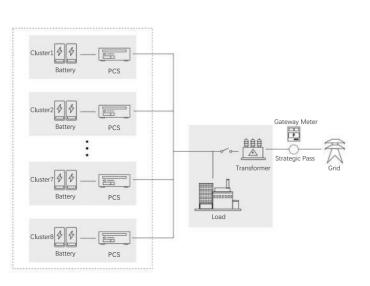
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System model	EASS500K/1MWH-C	EASS750K/1.5MWH-C	EASS1000K/2MWH-C		
DC side parameters					
Battery type	LFP3.2V300Ah				
Voltage range	739.2~950.4Vdc				
Rated capacity	1013kWh	1520kWh	2027kWh		
System battery configuration		264S1Px6			
Rated voltage		844.8Vdc			
Grid-connected AC-side parameter	rs				
Power rating	500kW	750kW	1000kW		
Rated voltage		400Vac			
Rated frequency		50/60Hz			
Voltage range		400Vac(-20%~+15%)			
Frequency range		50/60Hz(-5Hz~+5Hz)			
Total current harmonic distortion rate		≤3%			
Power factor		98.50%			
Overload capacity	110%				
Off-grid AC-side parameters					
Power rating	500kW	750kW	1000kW		
Rated voltage	400Vac				
Rated frequency	50/60Hz				
Voltage harmonic	≤3%				
System parameter					
AC wiring mode		3/N/PE			
System effectiveness		≥85%			
Cooling-down method		Liquid Cooling			
Charge and discharge rate		0.5P			
Cycle index	≥6000@25°C				
Fire extinguisher system	Perluorhexanon	ne(PACK grade)+active monitoring+wat	er fire protection		
Working temperature		-30~55℃			
Relative humidity		0~95%RH, with no condensation			
Above sea level	<3000(drop amount over 3000m)				
Communication interfaces	LAN, RS485, TCP/IP, ICE61850				
IP rating	IP54				
Weight(kg)	≤35000				
Cabinet size(mm)	6058×2438×2896				
Approval standards	UL9540A-2023, IEC 62619-2022, IEC 63056-2020, IEC/EN 62477-1-2023, IEC62933-1-2024, UL1973-2022, UN38.3, UL1973-2022, IEC 61000-6-2-2016, IEC 61000-6-4-2018, EN 50549-2/-10, VDE 4110, VDE 4120, C10/11, CEI016				





Product Advantages



Fuel saving and efficiency increase, which can fully mobilize the synergistic effect of energy storage and diesel units, and improve the fuel efficiency of dieseunits.



High waterproof and dustproof design, to adapt to different environmentaneeds. Vehicle battery design, perfect fire protection, protection and monitoring system.



Factory prefabrication, easy installation and maintenance on site. Supportfor frequent movement and forklift transportation to accommodate mobile applicationscenarios.



The operation mode, such as hybrid mode, gridconnected mode, off-grid modestorage-storage mode and other operation modes, realizes the mains, photovoltaicenergy storage and generator access at the same time, and each mode can be seamlesslyswitched freely to provide stable electric energy for the load.









System model	EASS 100K/200KWH-C	EASS 250K/0.5MWH-C	EASS 500K/1MWH-C		
DC side parameters					
Battery type	LFP 3.2V314Ah	LFP 3.2V	LFP 3.2V300Ah		
Voltage range	560~720Vdc 616~792Vdc				
Rated capacity	200.96kwh	663kWh	1105kWh		
Batteries cluster into groups	200S1P	220S1Px3	220S1Px5		
Rated voltage	640Vdc	704\	√dc		
Pv input parameters					
Maximum PV inputvoltage		1000V			
Maximum photovoltaic power	120/180/240kW	300/360kW	600/660/720kW		
Number of MPPT modules	2/3/4	5/6	10/11/12		
Voltage range		250~840Vdc			
Full voltage range		450~850Vdc			
Off-grid AC side parameters					
Power rating	100kW	250kW	500kW		
Rated voltage		400Vac			
Rated frequency		50/60Hz			
Voltage range		400Vac(-20%~+15%)			
Frequency range		50/60Hz(-5Hz~+5Hz)			
Isolation transformer	270/400	270/400	315/400		
Overload capacity		110%			
System parameter					
AC wiring mode		3/N/PE			
System effectiveness		≥85%			
Cooling-down method	The air is cold	liqukd c	cooling		
Charge and discharge rate		0.5P			
Cycle index		≥ 6000@25°C			
Fire extinguisher system	Perluorol	nexone+active monitoring+water fire p	rotection		
Working temperature	20~55°C				
Relative humidity		0~95% RH, with no condensation			
Above sea level	<3000(over 3000m)				
Communication interfaces	LAN, RS485, TCP/IP, ICE61850				
IP rating	IP54				
Weight(kg)	≤10000 ≤35000				
Cabinet size(mm)	3500×2438×2590	6058×243	38×2896		





Product Advantages



The maximum efficiency of the system can reach 90%



PCS, battery, local EMS, temperature control and fire protection system integrated in a single cabinet for 1% reduction in losses



It has flexible configurations for parallel expansion of multiple products



The temperature difference of the battery cell is less than 4°C



The protection level of the whole cabinet is IP54, the core module is IP65, and the maximum anti-corrosion level can reach C5









Product model	EASS125K/261kWh-C
DC side parameters	
Battery type	LFP 3.2V/280Ah
Voltage range	(648~864)Vde
Rated capacity	215kWh
System battery configuration	240S1P
Rated voltage	768Vdc
AC side parameters	
Power rating	100kW
Rated voltage	400Vac
Rated frequency	50Hz
Voltage range	400Vac(-10%~10%)
Frequency range	45~55(Hz)
Total current harmonic distortion rate	<3%(Rated Power)
DC component	<0.5%(Rated Power)
Power factor	>0.99(Rated Power)
Overload capacity	110%
Adjustable reactive power factor range	-105%~105%
Isolation Method	Non-isolated
System parameters	
AC wiring mode	Three phase four line
Max. Efficiency(PCS)	>98.5%
Dimensions(WxHxD)(mm)	1400×2300×1560
Weight(kg)	2700
IP rating	IP54
Operating temperature range	-30°C~50°C
Operating humidity range	0%~95%(No Condensation)
Max. operating altitude without derating	≤2000m
Battery cooling method	Smart Fan
Fire protection system	Aerosol, Water Firefighting
Communication interfaces	Ethernet
External system communication protocol	Modbus-TCP
Approval standards	IEC/EN 62477-1-2012, IEC 61000-6-2/IEC 61000-6-4,
Approval standards	UN 38.5/EN 50549-1:2019/AC 2019





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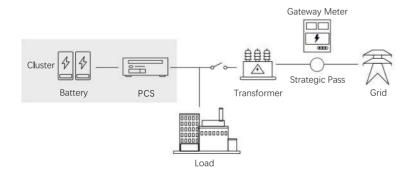
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System model	EASS125K/261kWh-C		
DC side parameters			
Battery type	LFP3.2V314Ah		
Voltage range	728~936Vdc		
Rated capacity	261kWh		
Batteries cluster into groups	260S1P		
Rated voltage	832Vdc		
Grid-connected AC-side paramete	ers		
Power rating	125kW		
Rated voltage	400Vac		
Rated frequency	50/60Hz		
Voltage range	400Vac(-20%~+15%)		
Frequency range	50/60Hz(-5Hz~+5Hz)		
Total current harmonic distortion rate	≤3%		
Power factor	98.50%		
Overload capacity	110%		
Off-grid AC-side parameters			
Rated power	125kW		
Rated voltage	400Vac		
Rated frequency	50/60Hz		
Voltage harmonic	≤3%		
System parameter			
AC wiring mode	Three phase four line		
System efficiency	≥98.5%		
Cooling-down method	Liquid Cooling		
Charge and discharge rate	0.5P		
Cycles	≥6000@25°C		
Fire protection system	Perfluorohexanone(PACK grade)+active monitoring+water fire protection		
Operating temperature	-30~55℃		
Relative humidity	0~95%RH, no condensation		
Elevation	<3000m(drop over 3000m)		
Communication interfaces	LAN, RS485, TCP/IP, ICE61850		
IP rating	Battery protection@IP67, PCS protection@IP66, system protection@IP54		
Weight(kg)	≤2200		
Cabinet size(mm)	1000×1350×2350		
Approval standards	UL9540A-2023, IEC 62619-2022, IEC 63056-2020, IEC/EN 62477-1-2023, IEC62933-1-2024, UL1973-2022, UN38.3, UL1973-2022, IEC 61000-6-2-2016,		



System Specification

		EAHI6KSL Series				
System components						
Number of battery modules	1	2	3	4	5	6
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Battery system model			5K1	WH		
Number of inverter		1				
Inverter mode		EAHI-6000-SL-S				
Rated power		6000W				
Dimensions(WxHxD)(mm)	600x778x305	600x998x305	600x1218x305	600x1438x305	600x1658x305	600x1878x305
Weight(kg)	93	143	193	243	293	343
Noise level at 1 m		<25dB				
Cooling type		Natural cooling				
Maximum altitude		400m				
Operating temperature		-20°C∼+58°C				
Operating humidity		0~100%RH(Non-condensing)				
Display		LED and app				
Installation method			Floor-n	nounted		

Lithium-ion Battery Module

Battery Model	5KWH
Cell technology	LiFePO4
Energy capacity	5.12kWh
Maximum expandable number	6
Scalable capacity range	5.12kWh~30.72kWh
DOD	Max. 100% DOD(settable)
Maximum charging power	3.84KW
Maximum discharging power	5.02KW
Max. charging current	75A
Max. discharge current	98A
Operating temperature	-20-+58℃
Humidity	0~100%RH(Non-condensing)
Communication interface	485 and CAN
Connection method	Floor-mounted
IP rating	IP66
Certification	IEC 62619, IEC 60730, UN 38.3, IEC 62040-1, ROHS2.0, VDE 2510-50

INVERTER MODEL	EAHI-6000-SL-S
PV input parameter	2/11/1 0000 02 0
	8000W
Maximum input power	
Maximum input voltage	550Vdc 360Vdc
Rated input voltage	100Vdc
Starting voltage	
Minimum operating voltage	150Vdc
MPPT operating voltage	100~540Vdc
PV maximum input current	16A/16A
PV maximum short circuit current	24A/24A
Quantity of independent MPPT	2
Number of input strings per MPPT	1/1
Battery input parameter	
Battery type	Lithium battery
Battery voltage range	42~58Vdc
Maximum charging current	100A
Maximum discharge current	120A
Charging curve	3 Stages/Equalization
Lithium battery charging strategy	BMS self-adaption
AC input parameter (grid side)	
Grid type	Single phase
Input voltage range	184~276Vac
Input frequency range	50±5Hz/60±5Hz
Maximum input current	40A
AC output parameter (grid side)	
Rated output power	6000W
Maximum apparent output power	6000VA
Grid system mode	1/N/PE
Rated output voltage	220Vac/230Vac
Rated output frequency	50Hz/60Hz
Rated output current	27.3A/26.1A
Maximum output current	27.3A
Power factor	>0.99(0.8 lead~0.8 lag)
Total current harmonics	≤3%(rated power)
AC output parameter (back-up sid	de)
Rated output power	6000W
Maximum apparent output power	6000VA
Grid system mode	1/N/PE
Rated output voltage	230Vac(208/220/240Vac settable)
Rated output frequency	50Hz/60Hz
Rated output current	27.3A/26.1A
Voltage harmonic	≤3% (linear load)
Switching time	≤10ms
Efficiency	
Maximum efficiency	97.8%
MPPT efficiency	99.9%
Protection	
	Grid over-voltage protection, grid over-frequency protection, grid overload protection, over-temperature protection, anti-islanding protection,
Comprehensive	insulation resistance detection, residual current monitoring unit, output over-current protection, output short-circuit protection, surge protection
Surge protection	DC Type II/AC Type III
Standard	
Safety regulation	IEC/EN 62109-1/-2, AS62109
EMC	EN 61000-6-1/-2/-3/-4
Grid-tied	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, NRS097-2-1, EN 50549-1 G99/1-9:2022, ETSI EN303645+PSTI, C10/11:2021, XP C 15-712-3:2019, ELOT EN 50549-1:2019, PEA
Other	
Topology	High frequency isolation(to batteries)
IP rating	IP66
Operating temperature range	-25~60°C(derated at >45°C)
Cooling method	Natural cooling
Maximum altitude	4000m
Noise level at 1 m	≤25dB
Installation method	Floor-mounted
	600×530×305
Dimensions(WxHxD)(mm) Weight/kg)	36.4
Weight(kg)	30.4



System Specification

		EAHI10K/15	K/20KTH Series		
System component					
Number of battery modules	1	2	3	4	
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	
Battery system model		EHBS	S-P5-TH		
Number of inverter			3		
Inverter mode	EAHI10K/15K/20KTH-S(optional)				
Rated power	10K/15K/20kW(optional)				
Dimensions(WxHxD)(mm)	650x1250x270	650x1600x270	650x1950x270	650x2300x270	
Weight(kg)	120	175	230	285	
Noise		≤25dB@EAH I 10K, ≤45dB(@EAH I 15K, ≤50dB@EAH I 20K		
Cooling type		Smart	t cooling		
Maximum altitude		30	000m		
Operating temperature		-20°C	C~+58°C		
Operating humidity		0-100%RH(Non-condensing)			
Display	LED and app				
Installation method		Floor-mounted			

Battery Specification

MODEL	EHBS-P5-TH
System component	
Battery type	LiFePO4
Module capacity	5.12kWh
Rated voltage	750Vdc
Voltage range	600~1000Vdc
Max. charge/discharge current	3.4A/5.5A
Communication interfaces	CAN/RS485
Dimensions(WxHxD)(mm)	650x370x270
Net weight	59
Topology	High frequency isolation
IP rating	IP66
Operating temperature	-25°C∼+55°C
Cooling mode/Heating mode	Natural cooling/PTC heating
Altitude	3000m
Noise level at 1 m	<40dB
Installation method	Floor-mounted
Standards	
Safety regulation	IEC/EN 62619 2022, ISO 13849, IEC/EN 62040-1, IEC/EN 62477, IEC62109-1/2
EMC	IEC 61000-6-1, EN/IEC 61000-6-3
Transportation	UN 38.3

Hybrid Inverter Specification

MODEL	EAHI10KTH-S	EAHI15KTH-S	EAHI20KTH-S		
PV input parameter					
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/3	32A		
Max, short circuit current per MPPT	24A/24A	24A/4	18A		
Number of MPPTs		2			
Number of input strings per MPPT	1/1	1/2	2		
Battery input parameter					
Battery type		Lithium battery			
Voltage range		650~980Vdc			
	15.4A/15.4A	23.1A/23.1A	30.87/30.87		
Max. charge/discharge current	10.47/ 13.47/	20.1W 20.1M	30.8A/30.8A		
AC input and output (grid)	45177	33 21314	201111		
Max. apparent power of grid	15kVA	22.5kVA	30kVA		
Max. input current	21.7A	32.6A	40A		
Input voltage range		320~480Vac			
Input frequency range		50±5Hz/60±5Hz			
Rated output power	10kW	15kW	20kW		
Max. apparent output power	11kVA	16.5kVA	22kVA		
Rated output voltage	3/N/PE, 380Vac/400Vac				
Rated output frequency		50 Hz/60Hz			
Rated output current	15.2A/14.5A	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 parameter (back-up load)					
Rated output power	10kW	15kW	20kW		
Max. apparent power		15kVA	20kVA		
Rated output voltage	10kVA	3/N/PE, 380Vac/400Vac	ZUNVA		
Rated output frequency	450.2.5	50Hz/60Hz	22.44.65.5		
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					
Max. efficiency		98.2%			
MPPT efficiency		99.9%			
Others					
Protections		age, over/under-frequency, over load, output short-circuit oring unit, output over-current,insulation resistance, anti-i			
Surge protection		DC Type II/AC Type III			
Dimensions(WxHxD)(mm)		650x640x270mm			
Net weight(kg)		45			
Parallel operation		Supports 6 units in parallel connection			
Topology		Non-isolated			
IP rating		IP66			
Operating temperature	Natural cooling	-25°C~+60°C	ooling		
Cooling mode	Natural cooling	Smart o	Johnig		
Altitude		3000m			
Noise level at 1m	≤25dB	≤45dB	≤50dB		
Standards					
Grid connection	NC RFG+PTPiREE, VDE 01	126, EN50549-1/10, D I N VDE V 0124-100:2020, VDE-AR-	N 4105:2018, PPDS, CEI 0-21		
	IEC/EN 62109-1/-2, IEC62040-1, IEC62477, IEC62619:2022, EN 61000-6-1/-2/-3/-4				

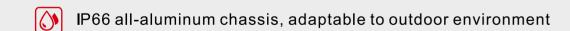
Battery Distribution Box Specification

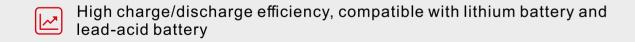
PDU-SH-Y/PDU-SH-F
60A
300~1000Vdc
LED
650x150x270
12
IP66
650×80×270

Single-Phase Residential Energy Storage Inverter

EAHI-3000-SL / EAHI-3600-SL / EAHI-5000-SL / EAHI-6000-SL



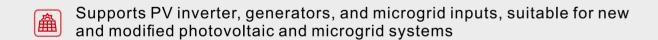




- Flexibly settable charge/discharge time section and power, peak load shaving
- APP real time monitoring, easy maintenance
- Outstanding off-grid output performance, adaptable to various non-linear load

MODEL	EAHI-3000-SL	EAHI-3600-SL	EAHI-5000-SL	EAHI-6000-SL
PV input parameter				
Max. input power	469	80W	6500W	7800W
Max. input voltage	400	550V		1,00044
Rated input voltage				
		360V		
Start-up voltage		100V		
Min. operating voltage		150Vi		
MPPT voltage range		100~54		
Max. input current per MPPT	16	6A	164	N/16A
Max. short-circuit current per MPPT	24	4A	24/	N/24A
Number of MPPT		1		2
Number of input strings per MPPT	-	1	1	1/1
Battery input parameter		-		
Battery type		Li-ion, Lead-a	cid battery	
Voltage range		42~58		
Max. charge current	66A	75A	100A	1004
				100A
Max. discharge current	66A	75A	100A	120A
Charging curve		3 Stages/Equ		
Lithium battery charging strategy		BMS self-a	daption	
AC input parameter(grid)				
Grid type		Single phase	e(L/N/PE)	
Input voltage range		184~27	6Vac	
Input frequency range		50±5Hz/6	0±5Hz	
Max. input current	21.8A	26.2A	36.5A	40A
AC output parameter(grid)				1
Rated output power	3000W	3600W	5000W	6000W
Max. apparent output power	3000VA	3600VA	5000VA	6000VA
Grid system mode		Single phase		
Rated output voltage		220Vac/2		
Rated output frequency		50Hz/6	0Hz	
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%(@Rate		
AC output parameter(back-up)		- 0(@/1010	/	
Rated output power	3000W	3600//	EUUUM	conow
		3600W 3600VA	5000W 5000VA	6000W 6000W
Max. apparent power	3000VA			000000
Output system mode		Single phase	, , , , , , , , , , , , , , , , , , , ,	
Rated output voltage		230Vac(208/220/2	40Vac settable)	
Rated output frequency		50Hz/6	0Hz	
Rated output current	13.0A	15.7A	21.8A	26.1A
Max. output current	14.4A	17.3A	24.0A	28.8A
THDV		≤3%(linea	r load)	
Transfer time		≤10r		
Efficiency		~101		
Max. efficiency		97.8	V4	
MPPT efficiency		99.9	70	
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 /A	C Type III	
Others		БС туреп/А	,po	
Communications		D0 105	A/ICI	
		RS485,		
Dimensions(WxHxD)(mm)		548×440		
Net weight(kg)	21	1.4		4.8
Topology		High frequency isola	tion(for battery)	
IP rating		IP66	5	
Operating temperature		-25°C~+60°C(>4	5°C derating)	
Cooling mode		Natural c	poling	
Altitude		4000		
Noise level at 1 m		≤250		
Installation mode		Wall-mo		
		vvaii-mo	untou	
Standards				
Safety regulation		IEC/EN 62109-1		
EMC	EN 61000-6-1/-2/-3/-4			
	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, AS4777.2, NRS097-2-1, EN 50549-1			

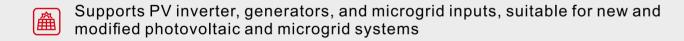




- Support RSD and AFCI optional configurations to provide safer protection for the system
- App real-time monitoring, supports online remote OTA upgrades, easy operation and maintenance
- Supports multiple inverters with EPS output in parallel, and can be expanded to small industrial and commercial applications
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation

MODEL	EAHI10KSL	EAHI12KSL
PV input parameter		
Max. input power	18kW	18kW
Max. open-circuit voltage	550	Vdc
Rated input voltage	360'	Vdc
Start-up voltage	150	Vdc
Min. operating voltage	100	Vdc
MPPT voltage range	100~5	440Vdc
Full power MPPT voltage range	300~	
Max. input current per MPPT	30A/	
Max. short-circuit current per MPPT	40A/	
MPPT quantity		2
Number of input strings per MPPT		
	2/	/2
Battery input parameter		
Battery type	Li-ion battery/Le	
Voltage range	42~5	8Vdc
Max. charge/discharge current	180A/180A	250A/250A
AC input and output paramete	≱r(grid)	
Max. apparent power of grid	15kVA	18kVA
Max. input current	68.2A	81.8A
nput voltage range	184~2	276Vac
Input frequency range		5Hz
Rated output power	10kW	12kW
Max. output apparent power	10kVA	12kVA
Rated output voltage	1/N/PE, 220	
Rated output frequency	50	
Rated output current	45.5A/43.5A	54.5A/52.2A
Max. output current		54.5A
Power factor	45.5A	
THDI		ng~0.8 lagging)
	≈ 3%(@ rat	ted power)
Generator input	40111	4000
Max. input power	10kW	12kW
Max. input current	45.5A	54.5A
AC output parameter(back-up)		
Rated output power	10kW	12kW
Max. apparent power	10kVA	12kVA
Rated output voltage	1/N/PE, 220	Vac/230Vac
Rated output frequency	50	Hz
Rated output current	45.5A/43.5A	54.5A/52.2A
Max. output current	45.5A	54.5A
THDV	≤3%(line	earload)
Switching time		
	≤ 20	0ms
Efficiency	≤21	0ms
Maximum efficiency	97.	.8%
Maximum efficiency MPPT efficiency		.8%
Maximum efficiency MPPT efficiency	97. 99.	.8% .9%
Maximum efficiency MPPT efficiency Protections	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove
Maximum efficiency MPPT efficiency Protections Protections	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detecti	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection
Maximum efficiency MPPT efficiency Protections Protections Surge protection	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others	97. 99. Over/under voltage, over/under-frequency, overload, output short-cin current, insulation resistance detecti DC Type II/	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm)	97. 99. Over/under voltage, over/under-frequency, overload, output short-circurrent, insulation resistance detection DC Type II/	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg)	97. 99. Over/under voltage, over/under-frequency, overload, output short-circurrent, insulation resistance detection DC Type II/ 450x60	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg)	97. 99. Over/under voltage, over/under-frequency, overload, output short-circurrent, insulation resistance detection DC Type II/	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology	97. 99. Over/under voltage, over/under-frequency, overload, output short-circurrent, insulation resistance detection DC Type II/ 450x60	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 blation(for battery)
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating	97. 99. Over/under voltage, over/under-frequency, overload, output short-circurrent, insulation resistance detection DC Type II/ 450x60 4 High frequency iso	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 blation(for battery)
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature	97. 99. Over/under voltage, over/under-frequency, overload, output short-circurrent, insulation resistance detection DC Type II/ 450x60 4 High frequency iso	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 olation(for battery)
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature Cooling mode	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detecti DC Type II/ 450x60 4 High frequency iso IPC -25°C~ Smart of	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 olation(for battery) 66 -+60°C
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature Cooling mode Altitude	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detecti DC Type II/ 450x60 4 High frequency iso IP0 -25°C~ Smart c	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 olation(for battery) 66 -+60°C cooling
Efficiency Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature Cooling mode Altitude Noise level(1m) Installation method	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detecti DC Type II/ 450x60 4 High frequency iso IPC -25°C~ Smart c 300 < 55	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 clation(for battery) 66 -+60°C ccooling 00m 5dB
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature Cooling mode Altitude Noise level(1m) Installation method	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detecti DC Type II/ 450x60 4 High frequency iso IP0 -25°C~ Smart c	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 clation(for battery) 66 -+60°C ccooling 00m 5dB
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature Cooling mode Altitude Noise level(1m) Installation method Standards	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detection DC Type II/ 450x60 4 High frequency iso IPC -25°C~ Smart c 300 < 5! Wall-m	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 clation(for battery) 66 -+60°C ccooling 00m 5dB iounted
Maximum efficiency MPPT efficiency Protections Protections Surge protection Others Dimensions(WxHxD)(mm) Weight(kg) Topology IP rating Operating temperature Cooling mode Altitude Noise level(1m) Installation method	97. 99. Over/under voltage, over/under-frequency, overload, output short-cir current, insulation resistance detecti DC Type II/ 450x60 4 High frequency iso IPC -25°C~ Smart c 300 < 55	.8% .9% rcuit, over temperature, residual current monitoring unit, output ove ion, anti-islanding, surge protection /AC Type II 00x270 .5 blation(for battery) .66 -+60°C cooling .00m .5dB .ounted





- App real-time monitoring, supports online remote OTA upgrades, easy operation and maintenance
- Supports multiple inverters with EPS output in parallel, and can be expanded to small industrial and commercial applications
- Mains and PV input power oversized at a ratio of 1.5, resulting in a more stable system operation
- Support RSD and AFCI optional configurations to provide safer protection for the system

MODEL	EAHI10KTH	EAHI15KTH	EAHI20KTH	
PV input parameter				
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/3		
Max. short-circuit current per MPPT	24A/24A	24A/-	48A	
Number of MPPTs		2	-	
Number of input strings per MPPT	1/1	1/2	2	
Battery input parameter				
Sattery type		Lithium battery		
/oltage range		150~600Vdc		
Max. charge/discharge current	25A/25A	50A/	50A	
AC input and output paramete			001144	
Max. apparent power of grid	15kVA	22.5kVA	30kVA	
Max. input current	22.8A	34.2A	40.0A	
nput voltage range		320~480Vac		
nput frequency range		50±5Hz/60±5Hz	001111	
Rated output power	10kW	15kW	20kW	
Max. output apparent power	11kVA	16.5kVA	22kVA	
lated output voltage		3/N/PE, 380Vac/400Vac		
lated output frequency		50 Hz/60Hz		
Rated output current	15.2A/14.5A	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 parameter(back-up)		4500		
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	00.44.400.04	
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	_	ncy, overload, output short-circuit, over-temperature		
	overcurren	nt, insulation resistance detection, anti-islanding, surg	ge protection	
Surge protection		DC Type II/AC Type III		
Others		E00v220v270		
Dimensions(WxHxD)(mm)		500x660x270		
Packaged dimensions(WxHxD)(mm)		510x860x370		
Net weight(kg)		41		
Gross weight(kg)		47		
arallel operation		Supports 6 units in parallel connection		
opology		Non-isolated		
P rating		IP66		
Operating temperature		-25°C~+60°C		
Cooling mode	Natural cooling	Smart c	ooling	
Altitude		3000m		
Noise level(1m)	≤25dB	≤45dB	≤50dB	
nstallation method		Wall-mounted		
		VDE 0126, EN50549, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018		
Standards Grid connection Safety regulation	VDE 01:	26, EN50549, DIN VDE V 0124-100:2020, VDE-AR-N 4	1105:2018	

Off-Grid Inverter GF3K24H/GF5K48H/GF5K48L

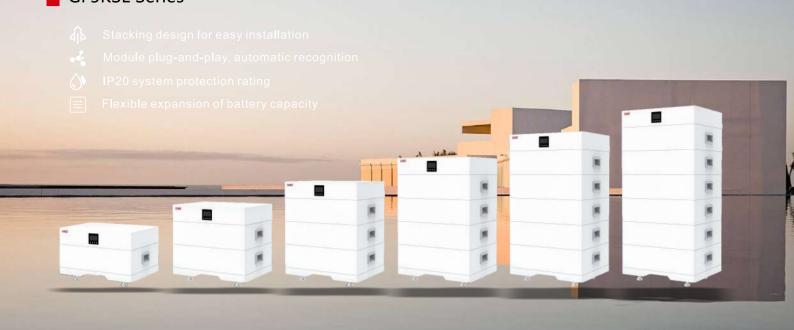


- Elegant appearance, wall-mounted design, simplified installation
- Pure sine wave output, output power factor 1.0
- Intelligent battery charger design, optimizable battery performance, with high efficiency charging/discharging technology
- High PV input range of 120V~450Vdc
- Configurable AC grid/battery input priority

Inverter Specification

MODEL	GF3K24H	GF5K48H	GF5K48L
Rated power	3000VA/3000W	5000VA/5000W	5000VA/5000W
AC input			
Rated input voltage	230VAC	230VAC	120VAC
Input voltage range	170~280VAC PC 90~280VAC home application	170~280VAC PC 90~280VAC home application	90~140VAC
Rated input frequency	50/60Hz self-adapting	50/60Hz self-adapting	50/60Hz self-adapting
Input frequency range	40~65Hz	40~65Hz	40~65Hz
Rated input current	20A	32A	61.33A
Max. input current	30A	40A	80A
AC output		1	
Rated AC output voltage	230VAC±5%	230VAC±5%	120VAC±5%
Output settable voltage	220V/230V/240V	220V/230V/240V	110V/120V
Output settable frequency		50Hz/60Hz	
Rated AC output current	13.05A	21.70A	41.67A
Overload capacity	10s@110%~		6 rated load
THDU		<5%, linear load; <10%, non-linear load	
Efficiency(peak value)	93%		
Surge power	6000VA, 5 cycles	10000VA,	5 cycles
Switching time	20ms home application 10ms		
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	142A 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	27/	4
Max. PV charging current		100A	
Max. AC charging current		100A	
Max. battery charging current		100A	
Others			
Dimension(WxDxH)(mm)	322x122x471	342x122x471	328x120x415
Net weight(kg)	10	11	11
Operating environment		-10°C~50°C	
IP rating		IP20	
Protections	·	oltage protection, input over/under frequency protection -circuit, radiator over-temperature protection, fan fault o	·
Communication interfaces	Saspat Short	USB/RS232/RS485, dry contact, WiFi(optional)	

Single-Phase Off-gird Energy Solution All in one GF5KSL Series



Lithium-ion Battery Module

Battery Model	5KWH					
General						
Cell technology		LiFePO4				
Energy capacity			5.12	kWh		
Maximum expandable number			6	5		
Scalable capacity range			5.12kWh~	30.72kWh		
Maximum charging power			3.84	kW		
Maximum discharging power			5.02	?kW		
Max. charging current			50)A		
Max. discharge current			10	0A		
Operating temperature			-20~-	+65°C		
Humidity			5~95%RH(Nor	ı-condensing)		
Communication interface			485 an	d CAN		
Connection method			Floor-m	nounted		
IP rating			IP2	20		
Certification		IEC626	19, IEC 60730, UN38.3, IEC	62040-1, ROHS2.0, VDE 25	010-50	
System Components						
Model			GF5KSI	Series		
Number of battery module	1	2	3	4	5	6
Battery capacity	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.60kWh	30.72kWh
Battery system model			5k\	WH		
Number of inverter			1	<u>l</u>		
Inverter model			GF5K4	18H-S		
Rated power	5000W					
Dimension(WxDxH)(mm)	600x450x340	600x450x510	600x450x680	600x450x850	600x450x1020	600x450x1190
Net weight(kg)	70	120	170	220	270	320
Cooling type	Fan cooling					
Maximum altitude		4000m(Altitub	e: < 1000 m, above 1000n	n, derating 1% for each ac	dditional 100m)	
Operating temperature			-10℃-	-+50°C		
Operating humidity			5%~95%RH(No	n-condensing)		
Display			LC	D		
Instalation method			Floor-m	nounted		

Inverter Specification

MODEL	GF5K48H-S	
Rated power	5000VA/5000W	
AC input		
Rated input voltage	230VAC	
Input voltage range	170~280VAC PC 90~280VAC home application	
Rated input frequency	50/60Hz self-adapting	
Input frequency range	40~65Hz	
Rated input current	32A	
Max. input current	40A	
AC output		
Rated AC output voltage	230VAC±5%	
Output settable voltage	220V/230V/240V	
Output settable frequency	50Hz/60Hz	
Rated AC output current	21.70A	
Overload capacity	10s@110%~150% rated load; 5s@≥150% rated load; 100ms@≥200% rated load	
THDU	<5%, linear load; <10%,non-linear load	
Efficiency(peak value)	93%	
Surge power	10000VA, 5 cycles	
Switching time	10ms	
Battery		
Battery type	Lead-acid battery/lithium battery	
Rated voltage	48VDC	
Charging voltage	54VDC(default), 48~58.4VDC settable	
Overcharge protection voltage	60.5VDC	
Rated discharge current	113.7A	
PV/AC charging		
PV charging	MPPT	
Max. PV plate power	6000W	
Max. PV plate open circuit voltage	450VDC	
MPPT operation range voltage	120~430VDC	
Max. PV input current	27A	
Max. PV charging current	100A	
Max. AC charging current	100A	
Max. battery charging current	100A	
Others		
Dimension (WxDxH)(mm)	342×122×471	
Net weight(kg)	14	
Operating environment	-10℃~50℃	
IP rating	IP20	
Protections	Input over/under voltage protection, input over/under frequency protection, output overload, output short-circuit, radiator over-temperature protection, fan fault detection etc.	
Communication interfaces	USB/RS232/RS485, dry contact, WiFi(optional)	



Lithium-ion Battery Module

Battery Model	5KWH
General	
Cell technology	LiFePO4
Energy capacity	5.12kWh
Maximum expandable number	6
Scalable capacity range	5.12kWh~30.72kWh
DOD	Max. 100% DOD(settable)
Maximum charging power	3.84kW
Maximum discharging power	5.02kW
Max. charging current	75A
Max. discharge current	98A
Operating temperature	-20~+58°C
Humidity	0~100%RH(Non-condensing)
Communication interface	485 and CAN
Connection method	Floor-mounted
IP rating	IP66
Certification	IEC 62619, IEC 60730, UN 38.3, IEC 62040-1, ROHS2.0, VDE 2510-50
Battery distribution box dimensions(WxHxD)(mm)	600x270x240
Battery dimensions(WxHxD)(mm)	600x380x230
Fixed base dimensions(WxHxD)(mm)	600x380x50

Lithium-ion Battery Module

Battery Model	5KWH
General	
Cell technology	LiFePO4
Energy capacity	5.12kWh
Maximum expandable number	12
Scalable capacity range	5.12kWh~61.44kWh
DOD	Max. 80% DOD(settable)
Maximum charging power	2.56kW
Maximum discharging power	5.12kW
Max. charging current	50A
Max. discharge current	100A
Operating temperature	-20°C~+50°C(Discharge); 0°C~+50°C(Charging)
Humidity	5~95%RH(Non-condensing)
Communication interface	CAN/RS485; 1 DO
Connection method	Floor-mounted
IP rating	IP20
Certification	IEC62368, TUN38. 3
Dimensions(WxHxD)(mm)	440x480x130

High Voltage Battery IP66 Stacked 5.12kWh



Battery Specification

Battery Model	EHBS-P5-TH	
System component		
Battery type	LiFePO4	
Module capacity	5.12kWh	
System capacity	5~20kWh, expandable	
Module number of battery cluster	1~4	
Maximum cluster number	3	
extended for battery system	3	
Rated voltage	750Vdc	
Voltage range	600~1000Vdc	
Max. charge/discharge current	3.4A/5.5A	
Communication interfaces	CAN/RS485	
Dimensions(WxHxD)(mm)	650x350x270	
Net weight	55kg	
Topology	High frequency isolation	
IP rating	IP66	
Operating temperature	-25°C~+55°C	
Cooling mode	Natural cooling	
Heating mode	PTC heating	

Altitude	3000m
Noise level at 1 m	< 40dB
Installation method	Floor-mounted
Standards	
Safety regulation	IEC/EN 62619 2022, ISO 13849, IEC/EN 62040-1, IEC/EN 62477, IEC62109-1/2
EMC	IEC 61000-6-1, EN/IEC 61000-6-3
Transportation	UN 38.3

Battery Distribution Box Specification

MODEL	PDU-SH
Parameter	
Maximum current	50A
Voltage range	300~1000Vdc
Display method	LED
Dimensions(WxHxD)(mm)	650x150x270
Net weight(kg)	11
IP rating	IP66
Others	
Fixed base dimensions(WxHxD)(mm)	650x80x270



WIFI acquisition stick integrates multiple protocols and can be applied to photovoltaic inverters and other devices equipped with aviation plugs. It collects device information through RS485, can be monitored locally through WIFI, or can be connected to a router(for WIFI collectors) to send the collected data to the monitoring platform.

Users download the "PV Assistant" APP, or log in to the PV cloud platform https://tools.powerchange.top, register an account, establish a personal power station, and add the collector to the power station to achieve real-time monitoring of the inverter's working status and power generation.

Communication Stick

MODEL	COMMUNICATION
WIFI wireless parameter	
Wireless standards	802.11b/g/n
Frequency range	2.412GHz-2.484GHz
Trequency runge	
Transmit power	802.11b: +16+/-2dBm(@11Mbps), 802.11b: +14+/-2dBm(@54Mbps),
	802.11b: +13+/-2dBm(@-H72), MCS7)
Receiving sensitivity	802.11b: -87dBm(@11Mbps),
	802.11g: -74dBm(@54Mbps),
	802.11n: -71dBm(@HT20, MCS7)
Antenna	Onboard PCB antenna
Buetooth features	
Protocol	Bluetooth 5.2
Output power	(MAX 15dBm)
Transmit power	6dBm
Receiving sensitivity	-95Bm
Onboard PCB antenna	
Frequency	GPRS:900/1800MHZ WIFI:2.4GHZ
SWR	2.0MAX
Input resistance	50Ω
Gain	2dBi
Operating temperature	-20~70°C
Antenna color	Black
Interface	SMA
Hardware parameter	OWA
Data interface	RS485
Operating voltage range	9~20 VDC
Rated power	1.3W
Indicator lights	One channel to connect the inverter to the signal light
	One channel to connect the inverter to the signal light
Data atawasa	One channel heartbeat indicator light
Data storage	4M BYTE FLASH
Operating temperature	-30°C~+70°C
Operating humidity	10%-90% relative humidity, non-condensing
Storage temperature	-45°C~+90°C
Storage humidity	<40%
Product size(mm)	35x84.5
Interface	Aviation plug
Software parameter	
Number of connected inverters	1 set
Acquisition baud rate	Default 9600bps(1200~115200 adjustable)
Data reporting frequency	Default 5 minutes(optional: 1~15 minutes selectable)
User parameter	485 debug instructions
Settings	Local WEB page settings
	Remote server
	Bluetooth
Firmware upgrade	Local web page upgrade
riiliwale upglade	Remote upgrade
Other	Real-time control, breakpoint resume
Certification	
China	SRRC
Europe	CE
USA	FCC
Canada	IC
Brazil	Anatel
Australia/NewZealand	RCM
South Korea	KC*
OUGH NOICE	NO.

Related Certificates

































Project Presentation







