Enerlution

susan@eyacht.com.cn

Whatsapp: +8617719497063

Eyacht Energy Co.,Ltd

www.hybess.com

Enerlution

华宇智航

Lithium Battery Specialist

Solar Energy Storage System

Eyacht Energy Co.,Ltd.

ABOUT US

Hefei Eyacht Energy Co., Ltd is a high-tech enterprise specializing in R&D and production of Residential, Commercial and Industrial energy storage systems(ESS). We are committed to creating a world-leading residential and distributed ESS with EMS , BMS , thermal management and safety management of life cycle of battery system.

So far,our self-brand Enerlution applied to Residential ESS and Integrated ESS has a certain market share in Germany, France, Czech, Netherlands, Poland, UK, Portugal, Belgium, Hungary,South Africa,etc. So far we supply to many online and offline brands who do business on Alibaba, Google and other platform.

By the way, Welcome ODM and OEM orders !

We have ISO9001 ISO9001,Quality Management system certification, so far our products have obtained the certification of UN38.3, MSDS, IEC62619, CE , CB , UL1973, UKCA , PSE, CEC,CEI, VDE etc.

At present,our factory covers an area of more than 6000 square meteres.We have different automatic production lines and package workshops,laboratories,aging test lines,QC lines,ect.Our monthly production capacity can reach 6000-10000sets batteries.

Combined the lithium ion phosphate A+ Grade cell with self-developed EMS,BMS and other core components, our products have features on long life, high safety and high reliability.

GroundHV-2500

LFPWall-10K-V2

LFPWall-5000

LFPWall-2500

Tel: +86 17719497063

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GroundHV-2500

High Voltage Stackable Energy Storage Battery

Support capacity selection 7.5kWh / 10kWh / 12.5kWh / 15kWh / 17.5kWh / 20kWh

Expansion Flexibility

2.5kWh modular design ,Scalable from 7.5kWh to 20kWh Mixed packs of new and old batches.

Easy installation

25kg battery module,one-person installation.No cable connection,plug and play.

Safe & Reliable

Lithium iron phosphate(LFP) cell.BMS built in &Passive protection by fuse and aerosol.

Environment Adaptability

Wide range of temperature：-10°C-55°C.IP 65 Design.

Perfect Compatibility

Compatible to residential three phase inverters.

More Usable Energy

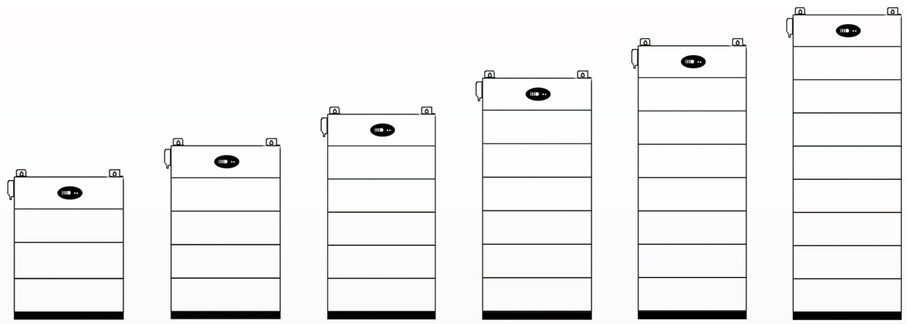
90% depth of discharge,pack level energy optimization.

I Product Parameter

GroundHV-2500

CE CB RoHS MSDS IEC EMC UN38.3

Capacity ： 52Ah	Battery Type ： LiFePO4	Max. Charge Current(A) ： 35A
Istallation : Floor Installation	Max. Discharge Current(A) ： 35A	Recyclable ： Fully recyclable at the end of life
IP Protection ：IP65	Temperature(℃) Cycle Life ： >6000. 25℃, 0.5C 90%DOD	Storage ： -20℃~+35℃
Working Temperature(℃) ： Charge: 0℃~+55℃ Discharge:-20℃~+55℃		Transportation SOC ：30%



Mode	GroundHV-7500	GroundHV-10K	GroundHV-12.5K	GroundHV-15K	GroundHV-17.5K	GroundHV-20K
Nominal Voltage	144V	192V	240V	288V	336V	384V
Connection	1P45S	1P60S	1P75S	1P90S	1P105S	1P120S
Voltage Working Range(V)	114.7V-159.7V	153V-213V	191.2V-266.2V	230V-319V	267.7V-372.7V	306V-426V
Nominal Capacity(kWh)	7.488kWh	9.984kWh	12.48kWh	14.976kWh	17.472kWh	19.968kWh
Weight	~80kg	~105kg	~129kg	~152.3kg	~176.2kg	~199.5kg
Dimension(L*W*H)	606 x220x730mm	606x220x900mm	606x220x1070mm	606x220x1240mm	606x220x1410mm	606x220x1580mm

LFPWall-10K-V2

Wall Mounted Energy Storage Battery

Support capacity selection 10kWh / 20kWh / 30kWh / 40kWh...

Expansion Flexibility

10kWh modular design ,support 1-8 battery in Parallel.

Easy installation

Reduce floor space ,wall-mounted installation.Wall-mounted or floor-mounted is selected freely.

Safe & Reliable

Lithium iron phosphate(LFP) cell.BMS built in &Passive protection by fuse.

Environment Adaptability

Wide range of temperature：-10°C-55°C.IP 65 Design.

Perfect Compatibility

Compatible to both residential single & three phase inverters.

Long Life Span

15-20 years life design ,more than 6000 cycles.

51.2V 204Ah 10.44kWh

Power Wall

I Product Parameter

LFPWall-10K-V2

CE CB RoHS MSDS IEC EMC UN38.3

Model	LFPWall-10K-V2
Nominal Capacity	10.44kWh
Voltage	51.2V
Charge Voltage	57.6V
Discharge Voltage Range	43.2-57.6V
Max. Charging Current	90A
Max. Discharging Current	150A
Battery Type	LiFePO4
Max. Output Power	7168W
DOD	90%
Modules Connection	1-8 in parallel
Communication	CAN OR RS485
Cycle Life	≥6000 25℃ 0.5C
Working Temp Range	Charge: 0℃~+55℃,
	Discharge: -10℃~+55℃
Storage Temperature(℃)	-20℃~+35℃
Net Weight (kg)	96kg
Gross Weight (kg)	125kg
Product Dimension (mm)	790mm*586mm*197mm
Package Dimension (mm)	950mm*720mm*390mm

LFPWall-5000

Wall Mounted Energy Storage Battery

Support capacity selection 5kWh / 10kWh / 15kWh / 20kWh...

Expansion Flexibility

5kWh modular design ,support 1-8 battery in Parallel.

Easy Installation

Reduce floor space ,wall-mounted installation.Wall-mounted or floor-mounted is selected freely.

Safe & Reliable

Lithium iron phosphate(LFP) cell.BMS built in.

Environment Adaptability

Wide range of temperature：-10°C-55°C.IP 65 Design.

Perfect Compatibility

Compatible to both residential single & three phase inverters.

Long Life Span

15-20 years life design ,more than 6000 cycles.

51.2V 102Ah 5.22kWh

Power Wall

I Product Parameter

LFPWall-5000

CE CB RoHS MSDS IEC EMC UN38.3

Model	LFPWall-5000
Nomial Capacity	5.22kWh
Voltage	51.2V
Charge Voltage	57.6V
Discharge Voltage Range	45-57V
Max. Charging Current	40A
Battery Type	LiFePO4
Max. Discharging Current	75A
Max. Output Power	3840W
DOD	90%
Modules Connection	1-8 in parallel
Communication	CAN OR RS485
Cycle Life	≥6000 25℃ 0.5C
Storage Temperature(℃)	-20℃~+35℃
Working Temp Range	Charge: 0℃~+55℃, Discharge: -10℃~+55℃
Net Weight (kg)	48.5kg
Gross Weight (kg)	52.5kg
Product Dimension (mm)	536.3mm*464mm*180.5mm
Package Dimension (mm)	592mm*522mm*252mm

LFPWall-2500

Wall Mounted Energy Storage Battery

Support capacity selection 2.5kWh / 5kWh / 7.5kWh / 10kWh...

Expansion Flexibility

2.5kWh modular design ,support 1-8 battery in Parallel.

Easy Installation

Reduce floor space ,wall-mounted installation.Wall-mounted or floor-mounted is selected freely.

Safe & Reliable

Lithium iron phosphate(LFP) cell.BMS built in.

Environment Adaptability

Wide range of temperature：-10°C-55°C.IP 65 Design.

Perfect Compatibility

Compatible to both residential single & three phase inverters.

Long Life Span

15-20 years life design ,more than 6000 cycles.

51.2V 52Ah 2.66kWh

Power Wall

I Product Parameter

LFPWall-2500

CE CB RoHS MSDS IEC EMC UN38.3

Model	LFPWall-2500
Nomial Capacity	2.66kWh
Voltage	51.2V
Charge Voltage	57.6V
Discharge Voltage Range	45-57V
Max. Charging Current	35A
Max. Discharging Current	35A
Battery Type	LiFePO4
Max. Output Power	1792W
DOD	90%
Modules Connection	1-8 in parallel
Communication	CAN OR RS485
Cycle Life	≥6000 25℃ 0.5C
Storage Temperature(℃)	-20℃~+35℃
Working Temp Range	Charge: 0℃~+50℃, Discharge: -10℃~+55℃
Net Weight (kg)	31kg
Gross Weight (kg)	33kg
Product Dimension (mm)	536mm*365mm*196mm
Package Dimension (mm)	609mm*436mm*257mm

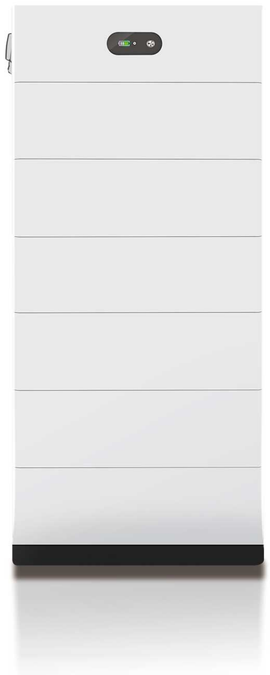
Intelligent Energy Storage System Solution

HY8KH3 / HY10KH3 / HY12KH3 + GroundHV-2500

I Product Parameter

Energy Storage Battery

Mode	GroundHV-10K	GroundHV-15K	GroundHV-20K
Connection	1P60S	1P90S	1P120S
Nominal Voltage	192V	288V	384V
Voltage Working Range(V)	153V-213V	230V-319V	306V-426V
Nominal Capacity(kWh)	9.984kWh	14.976kWh	19.968kWh
Dimension(W'D*H)	606x220x900mm	606x220x1240mm	606x220x1580mm
Capacity	52Ah		
Battery Type	LiFePO4		
Max. Discharge/Charge Current(A)	35A		
Temperature("C) Cycle Life	>6000. 25℃, 0.5C 90%DOD		
IP Protection	IP65		
Working Temperature(℃)	Charge: 0℃~+55℃ Discharge:-20℃~+55℃		
Transportation SOC	< 30%		



Three phase ESS hybrid inverter

Mode	HY8KH3	HY10KH3	HY12KH3
Input (PV)			
Max.power(kW)	12	15	18
Max. DC voltage(V)	1,000		
MPPT voltage range(V)	180~850		
Max.input current of single MPPT(A)	13		
MPPT tracker/strings	2/1		
AC output			
Rated output power(kVA)	8	10	12
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)	400/360~440		
Frequency (Hz)	50 /60		
Power factor	0.8lagging-0.8leading		
Battery			
Battery voltage range(V)	125~600		
Max. charging voltage(V)	600		
Full battery voltage(V)	250	300	350
Max.input current of single MPPT(A)	40		
Battery type	lithium /Lead-acid		
Communication Interface	CAN/RS485		
Ingress protection	IP65		
Weight(kg)	29		
Display and communication			
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1		
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3		
On-grid	Europe：EN50549-1, Germany：VDE4105/0124，UK：G99，South Africa：NRS097-2-1:2017		
Interface:RS485/Wifi/4G/CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes		

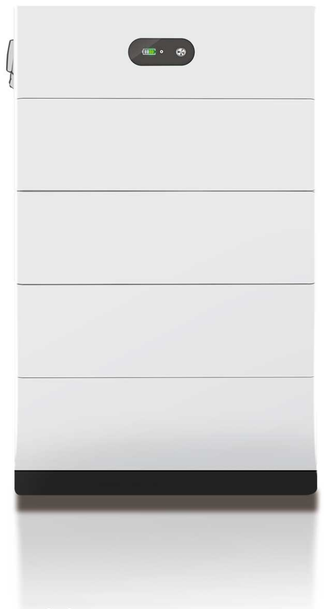
Intelligent Energy Storage System Solution

AF6K-T / AF8K-T / AF10K-T + GroundHV-2500

I Product Parameter

Energy Storage Battery

Mode	GroundHV-10K
Nominal Voltage	192V
Voltage Working Range(V)	153V-213V
Nominal Capacity(kWh)	9.984kWh
Dimension(W'D*H)	606x220x900mm
Capacity	52Ah
Battery Type	LiFePO4
Max. Discharge/Charge Current(A)	35A
Temperature("C) Cycle Life	Fully recyclable at the end of life
IP Protection	IP65
Working Temperature(℃)	Charge: 0℃~+55℃ Discharge:-20℃~+55℃
Transportation SOC	< 30%



Three phase ESS hybrid inverter

Mode	AF6K-T	AF8K-T	AF10K-T
Input (PV)			
Max. DC Input Power (kW)	9	12	15
Rated DC Input Voltage (V)	620		
DC Input Voltage Range (V)	150-1000		
MPPT Voltage Range (V)	150-850		
Start-up Voltage (V)	160		
Max. DC Input Current (A)	20x2		
No. of MPPT Tracker	2		
Battery Port			
Battery Nominal Voltage (V)	250	300	400
Battery Voltage Range (V)	150-800		
Max. Charge/Discharge Pow (W)	6.6K/6K	8.8K/8K	11K/10K
Max. Charge/Discharge Current (A)	30		
Compatible Battery Type	Li-ion / Lead-acid		
AC Grid Output			
Nominal AC Output Power (VA)	6000	8000	10000
Max. AC Input Power	9000	12000	15000
Max. AC Output Current (A)	10.5	13.5	17
Nominal AC Voltage (V)	230/400		
Nominal AC Frenquency (Hz)	50/60		
General Data			
Enclosure Protect Level	IP65/NEMA7X	IP65/NEMA8X	IP65/NEMA9X
Dimensions (H x W x D) (mm)	558 x 426 x 250 mm		
Weight (kg)	28.5kg		
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2		

Intelligent Energy Storage System Solution

AF3K-SL / AF5K-SL / AF6K-SL + LFPWall-10K-V2 LFPWall-5000

I Product Parameter

Wall Mounted Energy Storage Battery

Mode	LFPWall-10K-V2	LFPWall-5000
Nomial Capacity	10.44kWh	1P90S
Voltage	51.2V	51.2V
Charge Voltage	57.6V	57.6V
Discharge Voltage Range	43.2-57.6V	14.976kWh
Max. Charging Current	90A	40A
Max. Output Power	7168W	3840W
Battery Type	LiFePO4	LiFePO4
DOD	90%	90%
Modules Connection	1-8 in parallel	1-8 in parallel
Cycle Life	≥6000 25℃ 0.5C	≥6000 25℃ 0.5C
Working Temp Range	Charge: 0℃~+55℃ Discharge: -10℃~+55℃	Charge: 0℃~+55℃ Discharge: -10℃~+55℃
Gross Weight (kg)	125kg	52.5kg
Package Dimension (mm)	950mm*720mm*390mm	592mm*522mm*252mm

Single Phase String PV Inverter

Mode	AF3K-SL	AF5K-SL	AF6K-SL
Input (PV)			
Max. DC Input Power (kW)	4.5	8.3	9
Max. PV Voltage (V)	550		
DC Input Voltage Range (V)	150-1000		
MPPT Voltage Range (V)	80 - 500		
Start-up Voltage (V)	100		
Max. DC Input Current (A)	18.5 x 2		
No. of MPPT Tracker	2		
Battery Port			
Battery Nominal Voltage (V)	51.2		
Battery Voltage Range (V)	40 - 60		
Max. Charge/Discharge Pow (W)	3k	4.8k	4.8k
Max. Charge/Discharge Current (A)	80		
Compatible Battery Type	Li-ion / Lead-acid		
AC Grid Output			
Nominal AC Output Power (VA)	14	26	28
Max ConTInuous Power (kVA)	3	5.5	6
Max. AC Output Current (A)	10.5	13.5	17
Nominal AC Voltage (V)	220 / 230		
Nominal AC Frenquency (Hz)	50/60		
General Data			
Enclosure Protect Level	IP65 / NEMA4X		
Dimensions (H x W x D) (mm)	513 x 370 x 192mm		
Weight (kg)	17kg		
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2		

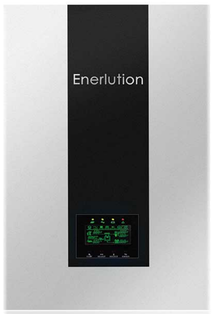
Intelligent Energy Storage System Solution

HYLV-3 / HYLV-5K + LFPR-51B100L-V1

I Product Parameter

Residential ESS Battery-Rack mounted

Mode	LFPR-51B100L-V1
Nominal Capacity	5.12kWh
Voltage	51.2V
Charge Voltage	57.6V
Discharge Voltage Range	43.2-57.6V
Max. Charging Current	50A
Max. Output Power	3584W
Modules Connection	1-8 in parallel
Cycle Life	>6000 25℃ 0.5C
Working Temp Range	Discharge: -10℃~+55℃ -20℃~+35℃
Gross Weight (kg)	46.1kg
Package Dimension (mm)	600mm*525mm*255mm



Off Grid inverter

Mode	HYLV-3K	HYLV-5K
Inverter mode		
Rated output voltage	230V (208/220/230/240 settable)	
Rated output power(W)	3000 (2600/2700/3000)	5000 (4350/4500/4800/5000)
Inverter efficiency (peak)	>90%	
Start-up Voltage (V)	10ms (typical)	
Utility mode		
Rated input voltage	220/230VAC	
Rated input current	13.6A	
Frequency range	40-70Hz	22.7A
Utility charging		
Battery Type	Lead-acid or lithium batteries	
Maximum charging current	10-130A	2-80A
Charging vol FV Settable	26.6-27.8V	53.2-55.6V
Tage range CV Settable	28-29V	56-58V
Overcharge protection	40A alarm and charge off after 1 minute	
Solar Charging		
PV Operating Voltage Range	30-145V	120-500V
Battery voltage range	20-30V	40-60V
MPPT Voltage Range	30-115V	120-430V
Maximum output power	3000W	5000W
Solar charging current range(Settable)	5-60A	0-80A
Complete machine system		
Standards and Certification	EN/IEC 61000, EN/IEC 62040, GB/T 7260, GB/T 4943, YD/T1095, TL	
IP Production	IP20	
Operating temperature range	-15°C to 55°C	
Communication Interface	232 port expandable SNMP card, USB, dry node control	