

HAi KAI LiHub All-In-One Distributed Energy Storage System



Safe & Efficient

Independent cabinet and modular battery design for increased safety. Higher efficiency and longer life cycle. Double layer fire protection system with intelligent temperature control.

Easy to Operate & Maintain

All-in-one modular solution allows for quick installation time and minimizes maintenance required for local failures. Cloud EMS allows easy remote monitoring and control of all LiHub units.

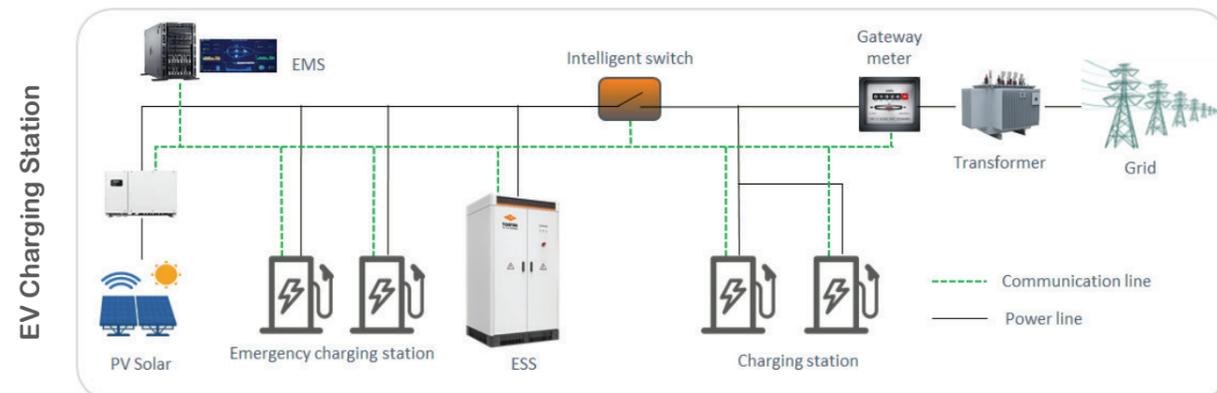
Versatile Functions

Built-in functionalities such as peak shaving, demand management, demand response, power expansion, emergency backup power, etc.

Easy to Expand

Each independent working cabinet can be connected in parallel to expand the total capacity of the energy storage system.

Example Applications



HAi KAI

HAIKAI Energy Storage Solutions
Website: www.haikai-energy.com

LiHub's Specifications

Model		LiHub 120kW/225kWh	LiHub 60kW/225kWh	LiHub 30kW/102kWh	
Battery Parameters	Cell Parameters	LFP 3.2V/280Ah	LFP 3.2V/280Ah	LFP 3.2V/100Ah	
	Module Configuration	1P18S	1P18S	2P16S	
	Module Voltage Rating	57.6Vdc	57.6Vdc	51.2Vdc	
	Module Capacity	16.128kWh	16.128kWh	10.24kWh	
	Module Size (W*H*D)	440*216*798mm	440*216*798mm	440*131*768mm	
	Module Weight	117kg	117kg	80kg	
	Cabinet Configuration	14 Modules + HVB Box	15 Modules + HVB Box	10 Modules + HVB Box	
	Cabinet Capacity	225kWh	225kWh	102kWh	
	Cabinet Voltage Rating	806.4Vdc	806.4Vdc	512Vdc	
	Cabinet voltage range	706Vdc ~ 907Vdc	706Vdc ~ 907Vdc	448Vdc ~ 560Vdc	
	Max. Charging/Discharging Power	120kW	60kW	30kW	
	Max. Charge/Discharge Current	176A	88A	100A	
On-Grid Parameters	Power Rating	120kW	60kW	30kW	
	Rated Grid Voltage	400V	400V	400V	
	Grid Voltage Range	-15% ~ +10%	-15% ~ +10%	-15% ~ +10%	
	Rated Grid Frequency	50Hz	50Hz	50Hz	
	Power Factor	-0.8 ~ +0.8 (Default 1)	-0.8 ~ +0.8 (Default 1)	-0.8 ~ +0.8 (Default 1)	
	Current Distortion Rate	< 3%	< 3%	< 3%	
	DC Component	< 0.5%Ipn	< 0.5%Ipn	< 0.5%Ipn	
	AC System	3P+N+PE	3P+N+PE	3P+N+PE	
	General Data	Maximum Efficiency	≥90%	≥90%	≥90%
		Charge/Discharge Rate	0.53C	0.5C	0.3C
Discharge Depth		95%DOD	95%DOD	95%DOD	
Battery Cycle Life		6000 Cycles	6000 Cycles	6000 Cycles	
Charging and Discharging Switching Time		< 100ms	< 100ms	< 100ms	
Dimensions (mm) (W*D*H)		1250*1150*2360	1250*1150*2360	800*1150*2360	
Weight		2500kg	2450kg	1500kg	
Protection Class		IP54	IP54	IP54	
Fire Protection System		Aerosols + Heptafluoropropane	Aerosols + Heptafluoropropane	Aerosols + Heptafluoropropane	
Cooling Method		Industrial Air Conditioning	Industrial Air Conditioning	Industrial Air Conditioning	
Operating Temperature		-25 ~ 55	-25 ~ 55	-25 ~ 55	
Display and Communication		Communication Interface	LAN	LAN	LAN
	Communication Protocol	ModBus-TCP	ModBus-TCP	ModBus-TCP	
	Human Machine Interface	10" Touch Screen	10" Touch Screen	10" Touch Screen	