



ALL-in-one Energy Storage System

Key Features

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

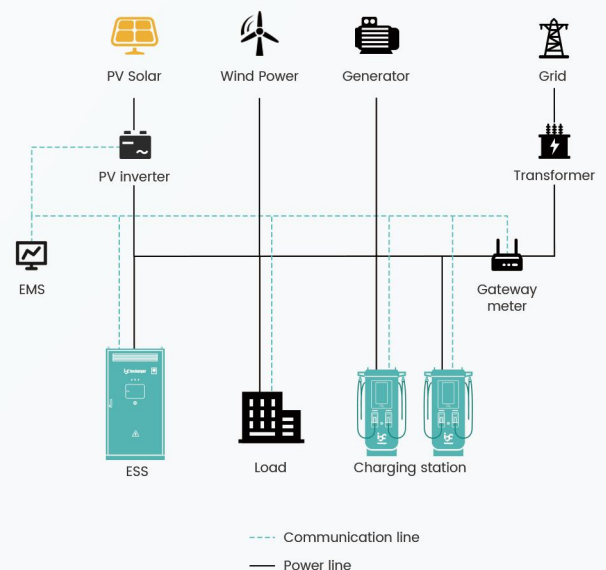
Built-in functionalities such as peak shaving, demand management, demand response, power expansion, emergency backup power, etc.

Multiple Standards Support

EN/IEC 62477-1, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019, EN 50549-1, G99, VDE-AR-N 4105, DIN VDE V 0124-100, AS 4777.2, IEC 62619



Easily expandable up to 5 units



Example Application

Specification

Specifications are subject to change without notice.

Model	IOC30EP96	IOC30EP129	IOC30EP161	IOC30EP193	IOC30EP225	
Battery Parameters	Cell parameters	LFP 3.2V/280Ah				
	Module configuration	1P18S				
	Module rated voltage	57.6Vdc				
	Module capacity	16.128kWh				
	Module size	440*798*216 (mm)				
	Module weight	117kg				
	Cluster configuration	6Modules +HVB	8Modules +HVB	10Modules +HVB	12Modules +HVB	14Modules +HVB
	Cluster capacity	96.7kWh	129kWh	161kWh	193kWh	225kWh
	Cluster rated voltage	345.6Vdc	460.8Vdc	576.0Vdc	691.20Vdc	806.4Vdc
	Cluster voltage range	302.4Vdc ~ 378.0Vdc	403.2Vdc ~ 504.0Vdc	504Vdc ~ 630Vdc	604.8Vdc ~ 756.0Vdc	706Vdc ~ 882Vdc
	Max.Charging/discharging power	30kW/30kW				
On-Grid Parameters	Max.Charging/discharging current	100Adc /100Adc	75Adc /75Adc	60Adc /60Adc	50Adc /50Adc	45Adc /45Adc
	Rated power	30kW				
	Rated Current	43.0A				
	Max. Current	43.0A				
	Rated grid voltage	230V/400V;3P+N+PE				
	Grid voltage range	-15%~+10%				
	Rated grid frequency	50Hz/60Hz				
General Data	Power factor	-0.8~+0.8				
	THDi	<3%				
	DCI	<0.5% pn				
	Maximum efficiency	≥90%				
	Charge and discharge rate	0.31C	0.23C	0.18C	0.15C	0.13C
	Discharge depth	95%DOD				
	Battery cycle life	8000				
	Dimensions (W*D*H)	800*1150*2100 (mm)	1250*1150*2360 (mm)			
	Weight	1600kg	1750kg	2000kg	2250kg	2500kg
Display and Communication	Degree of protection	IP55				
	Fire Fighting System	Aerosol				
	Cooling method	Industrial Air Conditioning				
	Operating temperature	-25°C~55°C				
	Communication method	Internet				
	Communication protocol	ModBus-TCP				
	LCD	10inch touch screen				

Model		IOC60EP129	IOC60EP161	IOC60EP193	IOC60EP225	IOC120EP225
Battery Parameters	Cell parameters	LFP 3.2V/280Ah				
	Module configuration	1P18S				
	Module rated voltage	57.6Vdc				
	Module capacity	16.128kWh				
	Module size	440*798*216 (mm)				
	Module weight	117kg				
	Cluster configuration	8Modules +HVB	10Modules +HVB	12Modules +HVB	14Modules +HVB	14Modules +HVB
	Cluster capacity	129kWh	161kWh	193kWh	225kWh	225kWh
	Cluster rated voltage	460.8Vdc	576.0Vdc	691.20Vdc	806.4Vdc	806.4Vdc
	Cluster voltage range	403.2Vdc ~ 504.0Vdc	504Vdc ~ 630Vdc	604.8Vdc ~ 756Vdc	706Vdc ~ 882Vdc	706Vdc ~ 882Vdc
	Max.Charging/discharging power	60kW/60kW				120kW/120kW
On-Grid Parameters	Max.Charging/discharging current	140Adc /140Adc	120Adc /120Adc	100Adc /100Adc	85Adc /85Adc	140Adc /140Adc
	Rated power	60kW				120kW
	Rated Current	86.0A				172.0A
	Max. Current	86.0A				172.0A
	Rated grid voltage	230V/400V;3P+N+PE				
	Grid voltage range	-15%~+10%				
	Rated grid frequency	50Hz/60Hz				
General Data	Power factor	-0.8~+0.8				
	THDi	<3%				
	DCI	<0.5%Ipn				
	Maximum efficiency	≥90%				
	Charge and discharge rate	0.46C	0.37C	0.31C	0.26C	0.53C
	Discharge depth	95%DOD				
	Battery cycle life	8000				
	Dimensions (W*D*H)	1250*1150*2360(mm)				
	Weight	1750kg	2000kg	2250kg	2500kg	2500kg
Display and Communication	Degree of protection	IP55				
	Fire Fighting System	Aerosol				
	Cooling method	Industrial Air Conditioning				
	Operating temperature	-25°C~55°C				
	Communication method	Internet				
	Communication protocol	ModBus-TCP				
	LCD	10inch touch screen				