

ALL-in-one Energy Storage System

All-in-one hybrid

- On-grid, off-grid, solar connection available
- High performance 3-level topology PCS, max efficiency 99.3%

Long Cycle life

- Integrated high-quality LFP cell with high cycle life > 6000 cycles
- Optimized thermal design, accurate temperature control, and air duct design ensure every cell always works in the most appropriate temperature range

Easy to expand

- Seamless and modular design
- Each independent working cabinet can be connected in parallel to expand the total capacity of the energy storage system

Versatile application

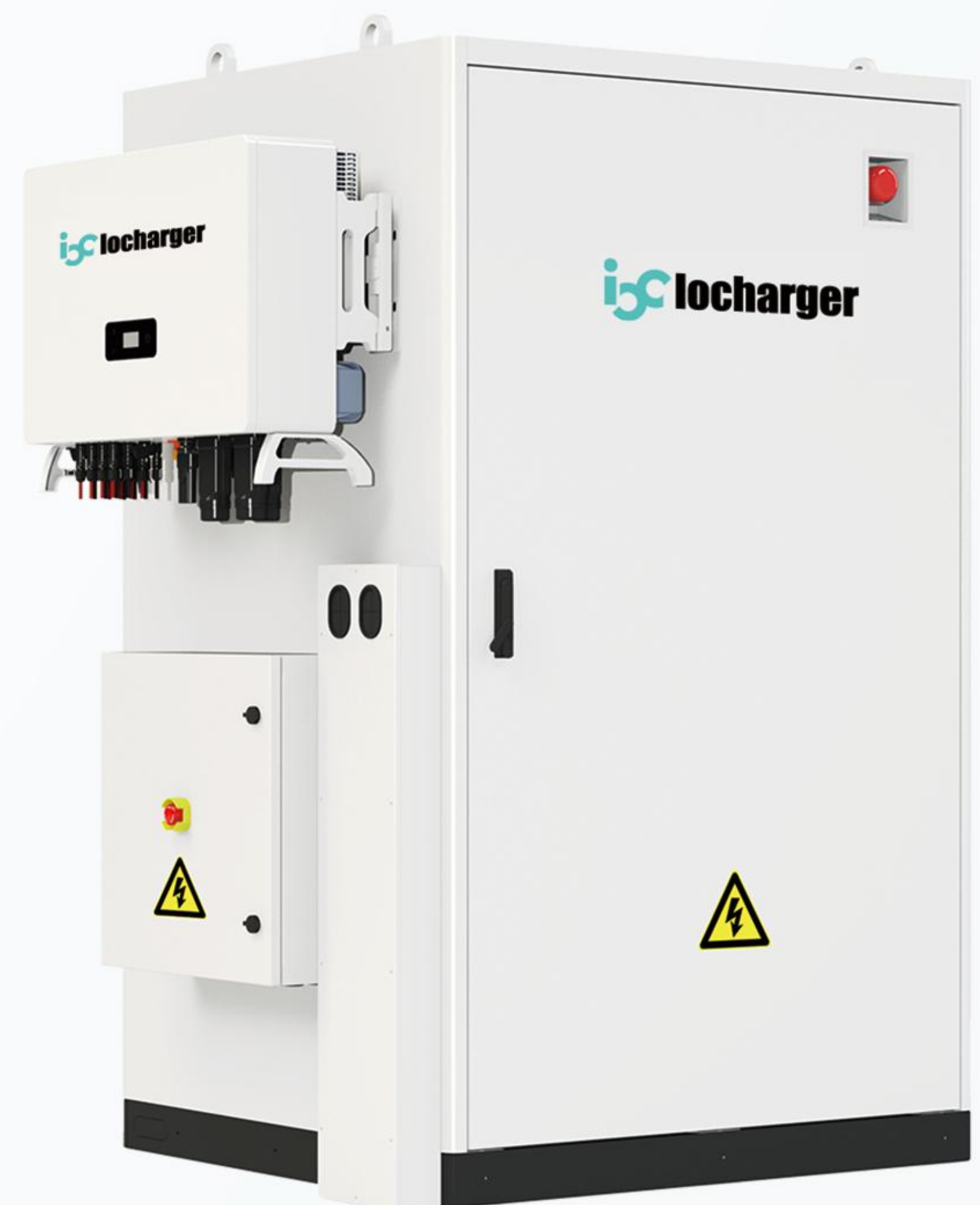
- Built-in functionalities such as peak shaving, demand management, demand response, power expansion, emergency backup power, etc
- Low noise, suitable for populated areas

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.



Specification

Specifications are subject to change without notice.

	Model	IOC50EPH102	IOC50EPH193
PV Parameters	Max. Input Power	50000W	
	Max. Input Voltage	1000V	
	MPPT Voltage Range	200-800V (Rated 620V)	
	Starting Voltage	135V	
	Max. Input Current	30A/30A/30A/30A	
	Max. Short-Circuit Current	40A/40A/40A/40A	
	Number of MPPTs	4	
Battery Parameters	Cell Parameters	LFP 3.2V/100Ah	LFP 3.2V/280Ah
	Module Configuration	1P16S	1P18S
	Module Voltage Rating	51.2Vdc	57.6Vdc
	Module Capacity	5.12kWh	16.128kWh
	Module Size (W*H*D)	440*131*440mm	440*216*798mm
	Module Weight	43kg	117kg
	Cabinet Configuration	20 modules + HVB	12 modules + HVB
	Cabinet Capacity	102kWh	193kWh
	Cabinet Voltage Rating	512Vdc	691.2Vdc
	Cabinet Voltage Range	448Vdc~560Vdc	604.8Vdc~756Vdc
	Max. Charging/Discharging Power	50kW	
Max. Charge/Discharge Current	100A		
On-Grid Parameters	Power rating	50kW	
	Rated Grid Voltage	230V/400V	
	Grid Voltage Range	-15%~+10%	
	Rated Grid Frequency	50/60Hz	
	Power Factor	-0.8~+0.8 (Default 1)	
	Current Distortion Rate	<3%	
	AC System	3P+N+PE	
Off-Grid Parameters	Apparent Power	50kVA	
	Power Factor	1	
	Rated Voltage	230V/400V	
	Rated Frequency	50Hz/60Hz	
	Voltage Distortion Rate	<3% (Linear Load)	
	Unbalanced Load Capacity	100%	
	Overload Capacity	60kW/60S	
	Off-Grid Switching Time	<20ms	
General Parameters	Maximum Efficiency	≥90%	
	Battery Cycle Life	8000 Cycles	
	Discharge Depth	95%DOD	
	Protection Level	IP55	
	Dimensions (mm) (W*D*H)	800*1150*2100+800*600*620mm	1250*1150*2100+800*300*620mm
	Weight	1800kg	2500kg
	Charge/Discharge Rate	0.5C	0.26C
	Fire Protection System	Aerosols	Aerosols + Heptafluoropropane
	Cooling Method	Industrial Air Conditioning	
	Operating Temperature	-25°C~55°C	
	Communication Interface	RS485(WiFi/4G/GPRS Optional)	