



Split Type ESS

- Energy**
4.6KWH ~ 13.82KWH
- Cycle Life**
6000次
- Service Life**
10年

Split Type Residential ESS (Battery)

Model		IESC-13.82	IESC-9.21	IESC-4.6
System Data	Battery Type	LiFePO4		
	Nominal Energy (kWh) @25	13.82	9.21	4.6
	Nominal Voltage (V)	51.2		
	Voltage Range (V)	44.8~57.6		
	Max. Charge Current (A)	110	110	90
	Max. Discharge Current (A)	110	110	90
	Match Inverter Power (kW)	5	5	3
	SOC	Intelligent Algorithm		
	Communication	CAN/RS485		
	Protective function	Over Voltage Protection, Low Voltage Protection, Over Current Protection, Over Temperature Protection, Low Temperature Protection, Short Circuit Protection, Reverse Polarity		
DC Circuit Breaker	Yes			
General Data	Dimension [W*D*H] (mm)	600X190X1500	600X190X1050	600X190X600
	Weight (kg)	≤180	≤126	≤67
	Installation Location	Indoor / Outdoor		
	Mounting Method	Floor-mounted	Floor-mounted / Wall-mounted	
	Operating Temperature (°C)	-10~55		
	Storage Temperature (°C)	-20~45		
	Humidity	5%~95%		
	Ingress Rating	IP65		
	Maximum Elevation (m)	2000		
	Cooling Strategy	Natural Convection		
	Single BMS Power Consumption	<2W (Work) , <50mW (Sleep)		
	Life Span (year)	10		
	Maximum Parallel Connections	2		
Compliance	IEC 62619, IEC 63056, IEC 62040-1, IEC 61000-6-1, IEC 60068-2-52, UN38.3			

Easy Installation: Support two installation methods: landing and wall hanging.

High Security: Use LiFePO4 battery inner core, which has higher safety and longer cycle life.

Wide Application Scenarios: Both on-grid, off-grid, and backup power functions. Support peak load shifting, power generation used by self, battery priority and other modes.

Easy Maintenance: External interface adopts quick plug connector.



All-in-one ESS

- Power**
3KW ~ 5KW
- Energy**
4.6KWH ~ 18.43KWH
- Cycle Life**
6000 times
- Service Life**
10 YEARS

All-in-one Residential ESS (Hybrid Inverter + Battery)

Model		IESC-18.43	IESC-13.82	IESC-9.21	IESC-4.6
PV Input	Max. PV Input Power (W)	7000	7000	7000	4600
	Max. PV Input Voltage (V)	500			
	Startup Voltage (V)	150			
	MPPT Voltage Range (V)	125~500			
	Nominal Input Voltage (V)	360			
	Max. PV Input Current (A)	14			
	Max. Short-circuit Current (A)	14			
	No. of MPPT Trackers	2			
	Strings Per MPPT Tracker	1			
	AC Input and Output	Nominal AC Power (W)	5000	5000	5000
Max. Apparent AC Power (W)		5000	5000	5000	3000
Nominal AC Voltage [range] (V)		230 (176~270)	230(176~270)	230(176~270)	230(176~270)
Frequency (Hz)		50/60	50/60	50/60	50/60
Max. AC Current (A)		21.7	21.7	21.7	13
Displacement Power Factor		0.8Leading ... 0.8 Lagging			
Total Harmonic Distortion		≤2%			
EPS Output	Nominal Power (W)	5000	5000	5000	3000
	Max. Power (W)	5000	5000	5000	3000
	Rated Voltage[AC] (V)	230	230	230	230
	Frequency (Hz)	50/60	50/60	50/60	50/60
	Max. AC Current (A)	21.7	21.7	21.7	13
	Switch Time	10ms			
	Total Harmonic Distortion	≤2%			
Efficiency	Parallel Operation	Yes			
	Compatible with The Generator	Yes (Signal provided only)			
	European Efficiency	97%			
	Max. Efficiency	97.6%			
	Battery Type	LiFePO4			
Battery Data	Battery Voltage Range (V)	44.8~57.6			
	Nominal Voltage (V)	51.2			
	Max. Charge/Discharge Current (A)	95/110	95/110	95/110	95/62.5
	Operating / Storage Temperature	-10~55°C/-20~45°C			
	Communication	CAN/RS485			
	Reverse Polarity	Yes			
System Data	Cooling Strategy	Natural Convection			
	Dimension [W*H*D](mm)	580X1800X350	580X1800X350	580X1800X350	580X1800X350
	Weight (kg)	≤260	≤216	≤150	≤105
	Humidity	5%~95%			
	Ingress Rating	IP20			
	Phase	Single - Phase			
	Life Span (year)	10			
	Communication Interface	CAN/RS485/WiFi/LAN/DRM			
	Compliance	EN/IEC 61000-6-1, EN/IEC 61000-6-3/A1/AC, EN/IEC 62109-1, EN/IEC 62109-2, AS/NZS 4777.2			