

LSHE Residential BESS

RPI-B Series

The LSHE RPI-B series is designed for households use to stock the electricity, with hybrid inverter integrated. It adopts high-performance lithium iron phosphate battery, with usage capacity expanded up to 28.8 kWh.



All-in-one Integrated Design

With battery, BMS, hybrid inverter, and control integrated design, highly compatible.



Expansion

Battery: expansion without cask effect.
Inverter: easy parallel.



High Profits

Power light loads during the night, higher efficiency, higher profit.



200% Over Management

Support 200% photovoltaic input, 200% backup overload capacity, 150% three-phase unbalanced output.



10 Years Warranty

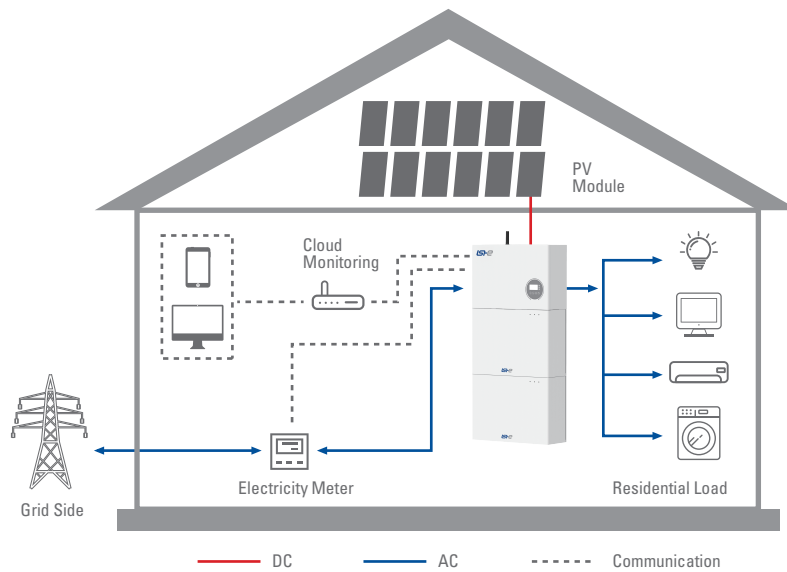
High level quality cells make 10 years warranty come true.



Smart Management System

Support LSHE APP/Web for monitoring and optimizing energy usage.

System Layout



Specifications

INVERTER MODEL	LSHE-3.6K-SH-B	LSHE-5K-SH-B	LSHE-6K-SH-B	LSHE-8K-TH-B	LSHE-10K-TH-B	LSHE-12K-TH-B
PV INPUT						
Max. PV Input Power	7.36kW	10kW	10kW	16kW	20kW	22.5kW
Max. PV Input Voltage	580V			1100V		
MPPT Range	100-550V			140-950V		
Max. Input Current	15A/15A			16A/16A/16A		
Max. Short Circuit Current	18.75A/18.75A	18.75A/18.75A	22.5A/22.5A	24A/24A/24A		
MPPT Trackers	2			3		
Strings Per MPPT Tracker	1/1			1/1/1		
AC PORT						
Rated Grid Output Power	3.68kVA	5kVA	6kVA	8kVA	10kVA	12kVA
Max. Grid Input Power	7.36kVA	10kVA	11.5kVA	16kVA	20kVA	22.5kVA
Rated Grid / Backup Voltage	230Vac			220/380Vac, 230/400Vac, 3/N/PE		
Rated Grid / Backup Frequency	50/60Hz			50/60Hz		
THDi	<3%			<3%		
THDv	<3% (Linear Load)/<5% (Non-linear Load)			<3% (Linear Load)/<5% (Non-linear Load)		
EFFICIENCY						
Max. Efficiency	97.3%			98.4%		
Max. Round Trip Efficiency	90%			96%		
GENERAL DATA						
Operating Temperature Range	-20-60°C			-20-60°C		
Dimensions (LxDxH)	590x405x205mm			590x416x205mm		
Weight	19.5kg			25kg		
External Communication	RS-485/WIFI/4G/Ethernet			RS-485/WIFI/4G/Ethernet		
Grid Regulation	VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020			VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020		
Safety Regulation	UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1			UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1		
	IEC/EN 62109-1&2, IEC/EN 62477-1:2012			IEC/EN 62109-1&2, IEC/EN 62477-1:2012		
BATTERY MODEL						
Battery Model	LSHE-HV4800-B			LSHE-HV4800-B		
Battery Type	LFP			LFP		
Battery Capacity	4.8kWh			4.8kWh		
Usable Capacity	4.6kWh			4.6kWh		
Depth of Discharge (DoD)	95%			95%		
Nominal Battery Voltage	96V			96V		
Operating Voltage Range	90-108V			90-108V		
Max. Charging Current	50A			50A		
Max. Discharging Current	50A			50A		
Operating Temperature Range	Charge: 0<T<50°C/Discharge: -10<T<50°C			Charge: 0<T<50°C/Discharge: -10<T<50°C		
Cycle Lifetime	6000			6000		
Series	1-6 in series			1-6 in series		
Dimensions (LxDxH)	590x430x205 mm			590x430x205 mm		
Weight	39.2kg			39.2kg		
Communication	CAN/RS-485 (Optional)			CAN/RS-485 (Optional)		
Safety Regulation	IEC 62619:2017, IEC 62040:2017			IEC 62619:2017, IEC 62040:2017		
Transportation	UN38.3			UN38.3		
SYSTEM						
Operating Altitude	≤2000m			≤2000m		
Relative Humidity	0-95% (No Condensing)			0-95% (No Condensing)		
Protection Class	IP65			IP65		
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4			IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4		