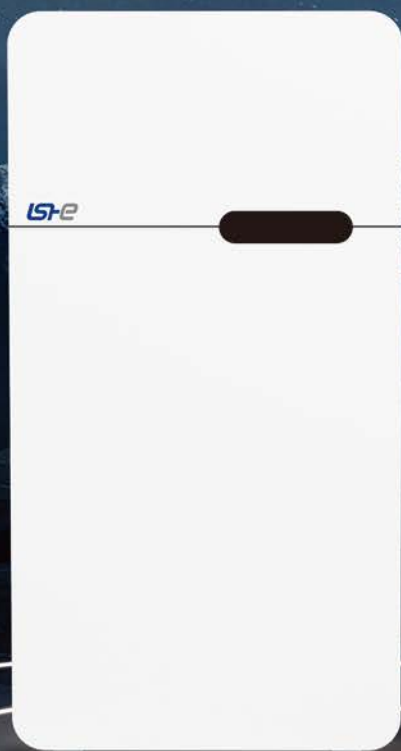




A Small Price to Pay A Big Step to Energy Independence

New Energy Amazing World

All-in-One Residential BESS With CATL Cell
RPI-LVA510S






RPI-LVA510S

Energy Hulk

24/7 Outage Protection

10.24kWh

	AC (1000W)	10h
	TV (250W)	42h
	Refrigerator (200W)	53h

RPI-LVA510S is a compact, all-in-one ESS integrating battery packs, BMS, PCS, controls, etc. With easy installation and a minimalist design, it complements a variety of home styles and solar systems. Customize our all-in-one system to power your facility-with or without solar and lower your energy bills from day one.

Cabinet Enclosure
IP65 Rating
Waterproof and dustproof

Smart Display
Operation
status at a glance

Intelligent Air Switch
Battery over-discharge
protection. Automatic
reset after troubleshooting

BMS
Self-developed digital
intelligent battery
management system



PCS
Ultra-fast response.
Start backup power
seamlessly within 10ms

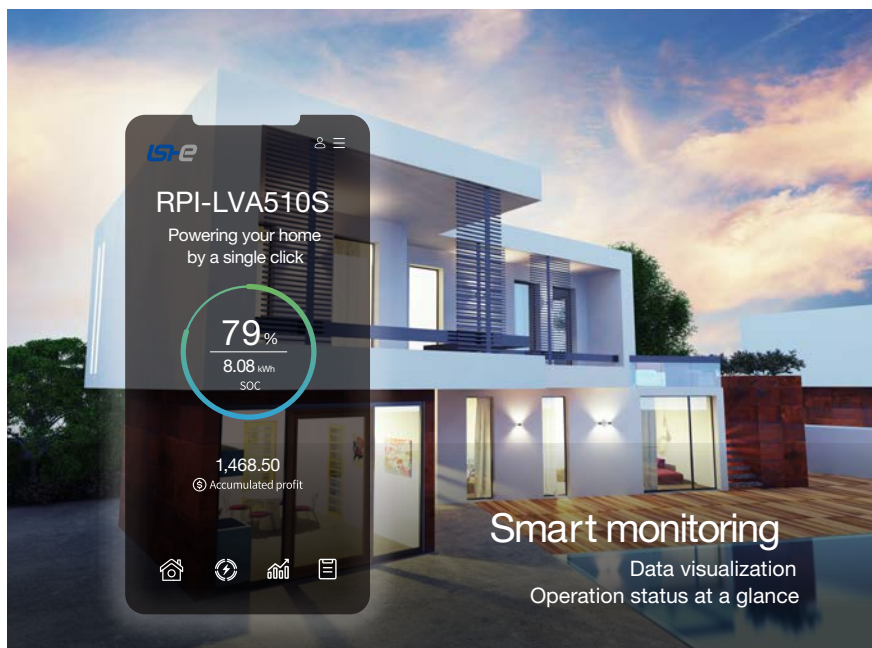
Battery Pack
High-performance
LFP cells,
safe and reliable

**Battery
Protection Board**
Strengthening
protection rating



Global Certifications

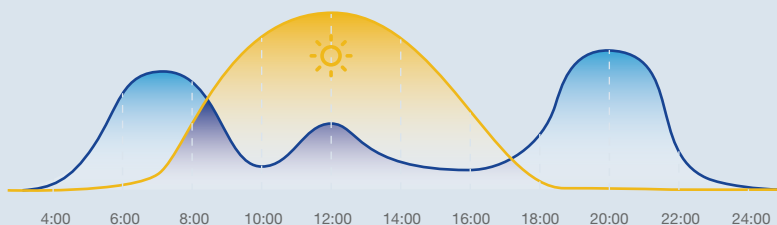
Successfully certified in main global markets, complying with IEC, UL, CE, UN38.3, etc.







New Pattern for Green Energy Utilization

Solar + storage AIO system ensures sufficient self-utilization;
peak-valley arbitrage cuts electricity bills

-  PV self-utilization
-  PV generation
-  Battery discharge
-  Energy consumption curve
-  Sunlight curve



-  Discharge from battery to meet your electricity usage during nights & early mornings
-  PV generation meets your electricity usage during days
-  Keep appliances running seamlessly during an outage
-  Ensure power stays on under severe weather

Residential ESS Solutions

World-leading residential smart energy solutions, green, digital, smart.....
LSHE brings amazing new energy life for global families!



Specification

Model		RPI-LVA510S	
Battery Type	LFP / CATL Cell	Voltage Range	44.8V~57.6V
Configuration	2P16S	Rated Charging Current	100A
Rated Voltage	51.2V	Max. Charging Current	120A
Rated Capacity	200Ah	Rated Discharging Current	100A
Rated Energy	10.24kWh	Max. Discharging Current	120A
PV Parameters			
Max. PV Generation Power	6500W	Max. Short Circuit Current	13.8/13.8A
Max. DC Voltage	580V	MPPT Voltage Range	125~550V
Rated DC Operating Voltage	360V	MPPT Number	2
Max. PV Input Current	11/11A		
On-Grid Parameters			
On-Grid Rated Power	5000VA	On-Grid Rated Current	21.7A
On-Grid Rated Voltage	230V	Max. AC Current	24.5A
On-Grid Rated Frequency	50/60Hz	Power Factor	0.8 lead~0.8 lag
Electrical Connection	L/N/PE	THD	<3%
Parallel Operation	NO		
Off-Grid Parameters			
Off-Grid Rated Power	4600VA		
Off-Grid Rated Voltage	230V		
Off-Grid Rated Frequency	50/60Hz		
Electrical Connection	L/N/PE		
Max. Protection Current	30A		
Max. Short Circuit Current	43A (10s)		
Peak Power	6900VA (3s)		
UPS Switching Time	<0.5S		
Operating Conditions			
Ambient Temperature	Charge/Discharge: 0~55°C		
Humidity	5~95%, no condensing		
Altitude	≤2000m		
Mounting	Floor standing		
General Parameters			
Weight	160kg		
Dimensions (W*D*H)	700*212*1320mm		
Protection Rating	IP65		
Cooling	Natural cooling		
Cycle Life	≥6000 cycles (@25±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)		
Certifications	IEC62619, UL1973, UL9540, UN38.3, CE		

The above parameters are subject to change without further notice, and the actual product shall prevail



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