

Residential Energy Storage Battery

Residential energy storage systems offer high-quality new energy products that are simple to install, easy to operate, safe to use, and environmentally friendly, suitable for powering household appliances. They power household appliances, storing grid electricity in batteries during off-peak periods and then transferring it to the grid during peak periods. Their modular design allows multiple batteries to be connected in parallel to expand capacity, ensuring greater storage capacity for both household use and grid delivery.

Product types include rack-mounted, stacked, vertical, and wall-mounted series, compatible with mainstream inverters on the market. Voltage levels include 24V, 48V, and 750V. Basic battery system capacities include 100Ah, 200Ah, and 314Ah. Multiple parallel groups are supported.

51.2V 102AH Rack-mounted LiFePO4 Battery



-  Flexible Expansion: Max. 2 units(parallel connection at battery side); Max. 63 units(parallel connection at inverter busbar side)
-  Integrated PACK: reduced line loss, enhanced energy density
-  Comprehensive Protection: Advanced BMS with active fuse
-  High compatibility, integrated design with mature and stable performance

MODEL		R5-21			
Model type		EFP48100R			
Cathode material		LiFePO4			
Rated voltage/V		51.2			
Cell capacity/Ah		102			
Rated energy/kWh		5.22	10.44	15.67	20.89
Standard parallel unit/P		1	2	3	4
Output power/kW		5	10	10	10
Charge voltage/V		58.4			
Operating voltage range/V		41.6~58.4			
Max. charge current/A		50	100	150	200
Max. discharge current/A		100	200	200	200
Operating temperature/°C	Charge temperature/°C	0~55			
	Discharge temperature/°C	-20~55			
Weight/kg		46	92	138	184
Dimension(W×D×H)(mm)		483×450×153	483×450×306	483×450×459	483×450×612
IP rating		IP21			
Certification		UN38.3, CE-EMC			
Cooling method		Natural cooling			
Communication		CAN/RS485, Bluetooth+APP			
Cycle life		≥6000 Cycles@0.5C/90%DOD@70%EOL, 25±2°C			
Display configuration		ON/OFF button, SOC indicator light(button LCD optional)			