

PowerTank 5KS

This household energy storage system is designed to couple with photovoltaic generation by utilizing long lifetime environment-friendly lithium iron phosphate battery as electricity carrier with output power up to 5kW as well as a flexible and efficient management system. Therefore, the electricity generated by the solar cells can be utilized under an off-line way, and also its redundant generation can be sold to the power grid to gain profit via an on-line mode. The facility is suitable for utilizations in houses with PV panels, small business buildings, office areas and some places where the price gap of peak and valley electricity is considerable.

System Specifications

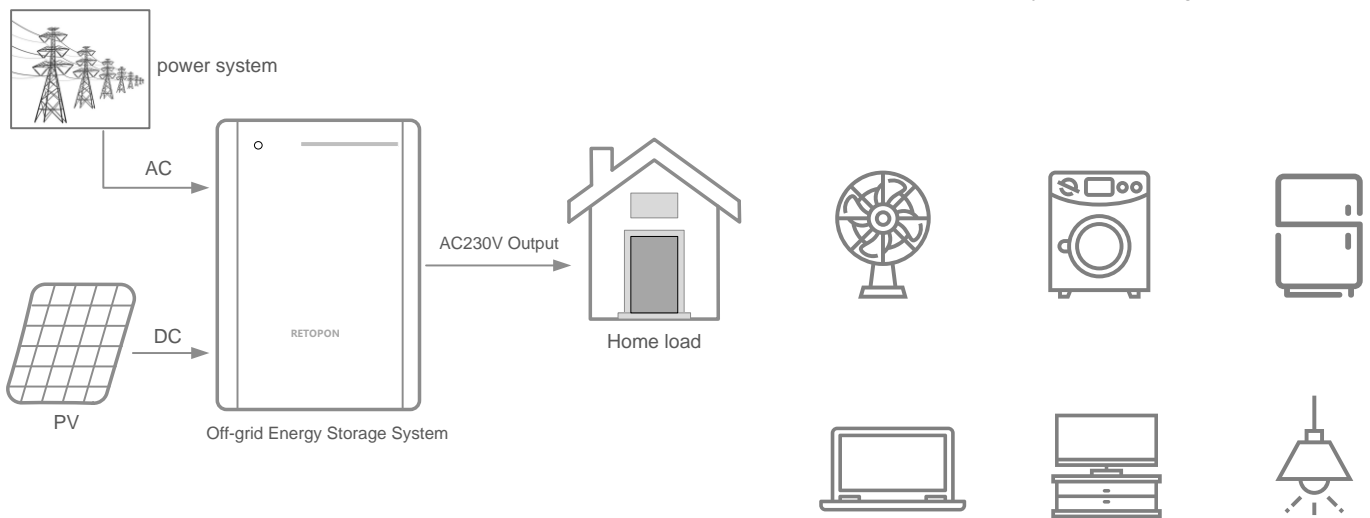
Product Name	Household Energy Storage System
Model Number	PowerTank 5KS
Power & Capacity	3KW/5KWh
Battery Type	LFP
Battery Capacity	100Ah
Battery Rated Voltage	51.2V
Off-grid Output	230VAC±2%, 50Hz (60Hz)
PV Input Voltage Range	DC72V-150V
PV Maximum input power	3000Wp
Rated Output Power	3000W
Inverter Output Wave	Sine
Energy Efficiency	≥87%
Working Temperature	-20°C~55°C
Weight	65 kg
Installation Method	Floor Type



Safety Technology

- Output overload protection;
- Output short-circuit protection;
- Battery over-temperature protection;
- Battery over-current protection;
- Battery over-charge protection;
- Battery over-discharge protection.

Application Scenario



Battery Specifications

Item	Contents	Index	Notes
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Battery Cell	1	Rated Voltage	3.2V	
	2	Capacity	50Ah	New battery status- standard charging mode
	3	Standard Discharge Current	0.5C	25°C±2°C
	4	Max. continuous discharge current	1C	25°C±2°C
	5	Working Voltage	2.7-3.7V	T>0°C
	6	Internal Resistant	≤15 mΩ	
Battery Pack	7	Combination	2P16S	
	8	Rated Power	5KW	
	9	Total Capacity	100Ah	Discharge 0.2c/5A after standard charging
	10	Rated Voltage	Average 48Vdc	
	11	Working Voltage	42Vdc-59.2Vdc	
	12	Weight	≥40kg	
	13	Dimensions	520*290*680mm	
	14	Max. continuous charge current	15A	25°C±2°C
	15	Normal continuous charge current	20A	25°C±2°C
	16	Max. continuous discharge current	50A	25°C±2°C
	17	Peak current	Transient 100A ≤5s	
	18	Normal discharge current	20A	25°C±2°C
	19	Charge Temperature	0~45°C	
	20	Discharge Temperature	-20~55°C	Low temperature discharge caused reduced capacity
	21	Insulated resistance	≥20MΩ	
	22	Box material	SPCC, black	
	23	Output Interface	HVM300	IP67
	24	Communication Interface	UTV16-9	IP67
	25	Charge Interface	Standard DC socket	IP54(IP55 after plug-in)
	26	IP grade	IP65	