

EverExceed[®]
power your applications



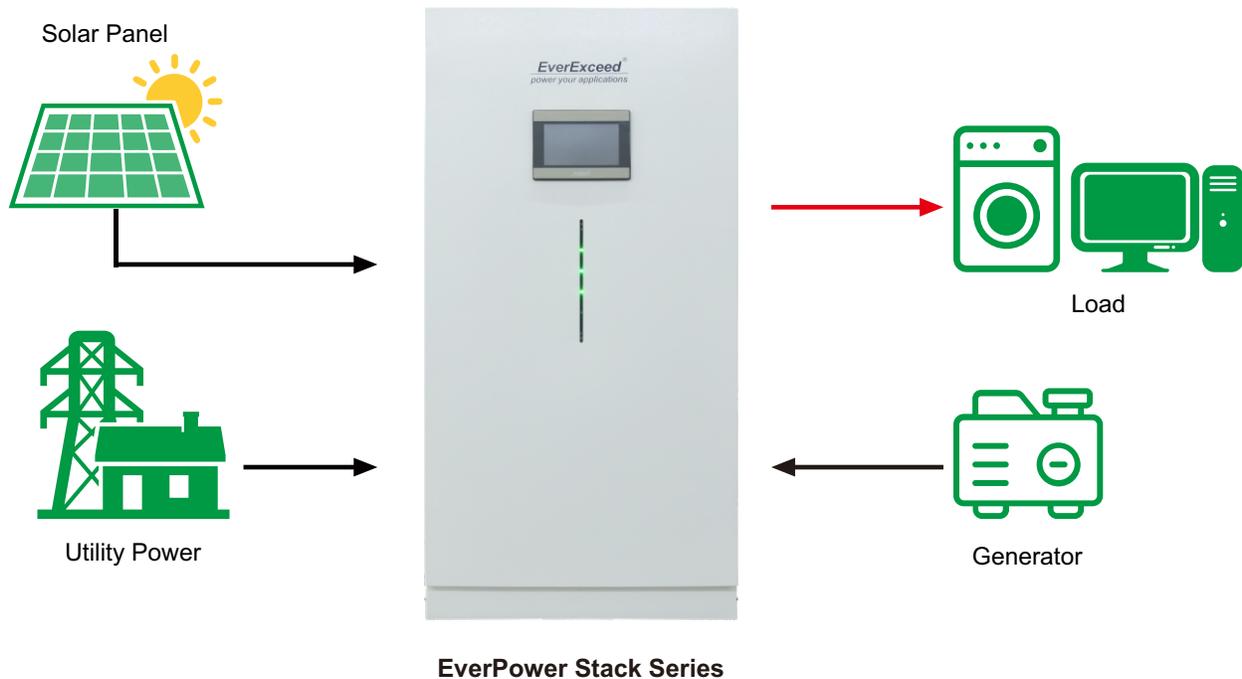
EverPower Series Residential Energy Storage System

EverPower Series Residential Solar Energy Storage Solution

For apartment, home, office, bank, clinic etc. applications

EverPower series ESS is a complete solar energy storage system that integrated with solar hybrid inverter, long life LiFePO4 lithium battery and power distribution. EverPower series ESS have an innovative stack-able design, which can help you save more than 50% installation time, and more easily expand.

The energy storage system can actively help you shape the energy transition, and consume your own solar power around the clock. It helps you cut your energy costs permanently that can save up to 100% energy costs. It can help you protect against the rising energy prices.



Working Mode

Mode 1: Solar first mode

Solar >> Battery >> Utility

Solar energy provides power to the loads as first priority. If solar energy is not enough to power all loads, battery will supply power to the loads at the same time.

Utility provides power to the loads only when battery voltage drops to either low-level warning voltage or the setting point in program

Mode 2: Backup mode

Solar >> Utility >> Battery

Solar energy provides power to the loads as first priority. If solar energy is not enough to power all loads, utility will power to the loads at the same time.

Battery provides power to the loads only when any one condition happens, that solar energy and utility is not available or solar energy is not enough and utility is not available.

Mode 3: Utility first

Utility >> Solar >> Battery

Utility will provide power to the loads as first priority. Solar and battery energy will provide power to the loads only when utility power is not available.

Advantage of the solution:

Ø SAVE UP TO 100% ON YOUR ELECTRIC ENERGY COSTS

The sun delivers valuable energy to your home every single day – completely free of charge. A PV rooftop system combined with our energy system allows you to generate and use electricity for your home, save up to 100% on your energy costs, and actively help shape the energy transition.

Ø HIGH QUALITY LITHIUM BATTERY

Using EverExceed's most advanced LFP lithium battery, with 15 years + design life and >6000 cycle life, ensuring maximum longevity and the highest quality with a small footprint.

Ø PROTECTION AGAINST THE RISING ENERGY PRICE

Harness the unlimited power of the sun to generate cost effective and sustainable solar power. Less dependence on energy providers and no more worries about rising electricity prices.

Ø BEAUTIFUL MODULAR AND STACK-ABLE OUTLOOK DESIGN

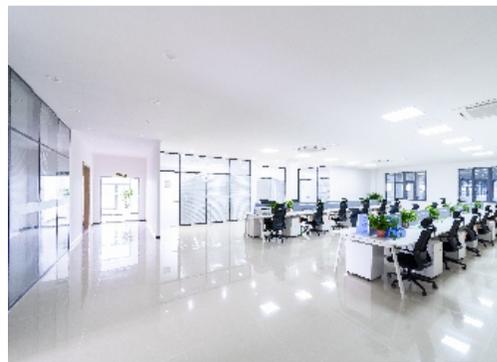
Beautiful outlook, modular stack-able design which can help you save more than 50% installation time, and very easy to expand when required.

Ø 24/7 UNINTERRUPTED POWER SUPPLY

With the EverExceed perfect combination of high-quality inverter and battery, help you not to lose power at all, powers all of your applications reliably.

Ø SMART AND VISUALIZED MANAGEMENT OF YOUR ENERGY

Support mobile APP monitoring, help you to easily manage your energy.



Technical specification:

Model	EPV5K-10E		EPV5K-15E		EPV5K-20E	
System Specification						
Rated AC Output Power	5000VA/5000W					
Surge AC Output Power	10000VA					
Energy Capacity Range	10.24kWh	15.36kWh		20.48kWh		
Battery Type	Lithium iron phosphate battery					
Max. AC Charging Current	60A					
Max. PV Charging Current	80A					
Max. Total Charging Current	80A					
Operating Temperature	Charge:0°C to 50°C / Discharge: -20°C to 60°C					
Storage Temperature	-30°C to 70°C					
Remote Monitoring	WiFi & APP (Optional)					
Relative Humidity	0~95%(no condensation)					
Operating Altitude	2000m					
Protection Degree	IP21					
System Dimension	W	600mm	600mm	600mm		
	D	400mm	400mm	400mm		
	H	1200mm	1800mm	1800mm		
Weight	117kg		165kg		213kg	
PV String Input Specification						
Max. DC Input Power	5500W					
Max. DC Input Voltage	450VDC					
MPPT Voltage Range	120 to 430VDC					
Max. PV Charging Current	80A					
Number of MPPTs	1					
Number of Strings per MPPT	1					
Inverter Specification						
Rated AC Output Power	5000W					
Surge AC Output Power	10000VA					
Battery Recommended Voltage	48VDC					
AC Input Voltage	90Vac to 280Vac					
AC Output Voltage	230Vac(120Vac optional)					
Rated Frequency	50 / 60Hz					
Max. AC Charging Current	60A					
Power Factor	1.0					
AC Output Wave Form	Pure Sine Wave					
Transfer Time	< 10ms					
Output THDi	<3%					
Max. Conversion Efficiency	≥94%					
Inverter Module Dimension(W*D*H)	600*400*400mm					
Battery Specification						
Battery Module Model	EP-48100					
Battery Module Voltage	51.2V					
Battery Module Capacity	100Ah					
Module Quantity	2	3		4		
Total Energy Capacity	10.24kWh	15.36kWh		20.48kWh		
Cycle Life	> 6000 cycles@80% DOD					

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