

Smart All-in-one Residential Energy Storage System

A versatile & smart way to store energy for your modern life



Safer



Smarter



Simpler



Product Description:

EverGEN Solar series hybrid ESS is a complete energy storage system that integrated with hybrid inverter, long life LiFePO4 battery, monitoring module and power distribution.

Adopts the innovative modular and stackable design, EverGEN Solar series ESS can save more than 50% installed time and saving more space, which is easier to expand than the traditional solar systems.

In addition, the EverGEN Solar ESS can be connected 2ways input, PV&AC input. It can fully utilize the solar power 24/7 to help you permanently reduce energy costs by up to 100%.



Safer:

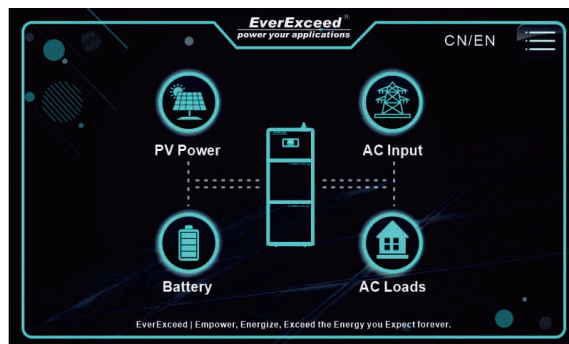
- High quality LiFePO4 batteries, 6000+ cycle time at 80% DOD;
- Reliable power: 24/7 uninterrupted power supply;
- Intelligent BMS, safer & smarter;
- Built-in fireproof module;
- Certified with IEC62619, CE, RoHS, UN38.3 etc.

Smarter:

- Mobile & PC view real-time data through WiFi module;
- Support lithium battery BMS communication;
- 4.3-inch touch screen, intelligent visualized energy management;
- User friendly LCD setting with real-time data.

Simpler:

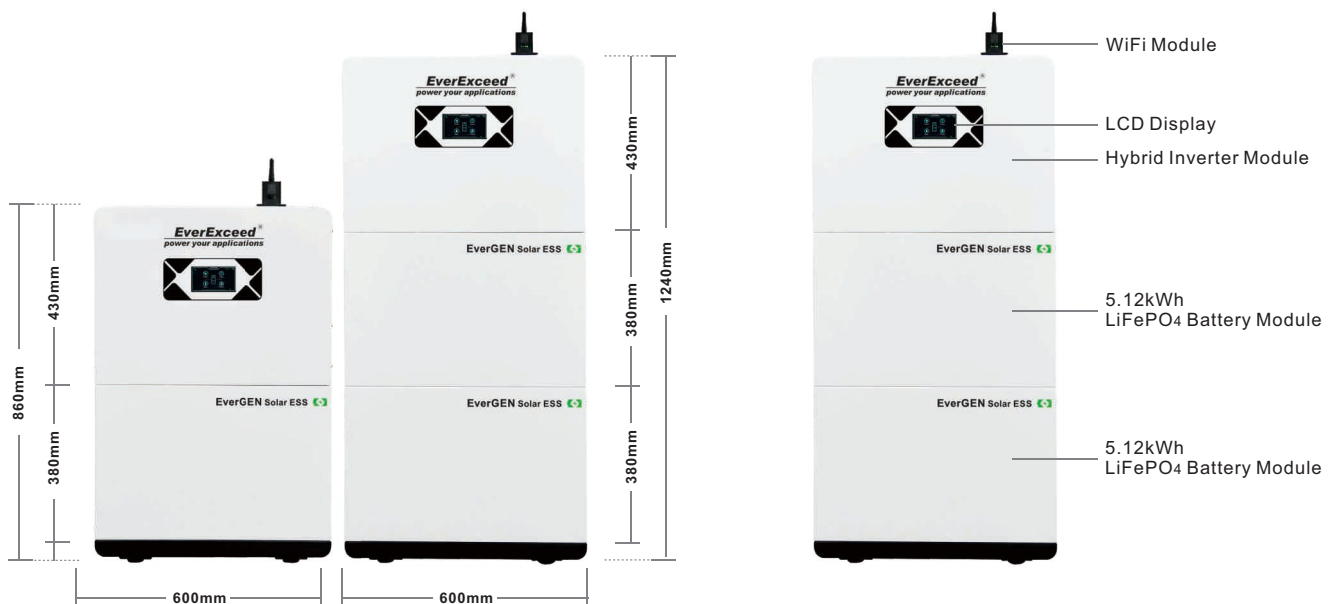
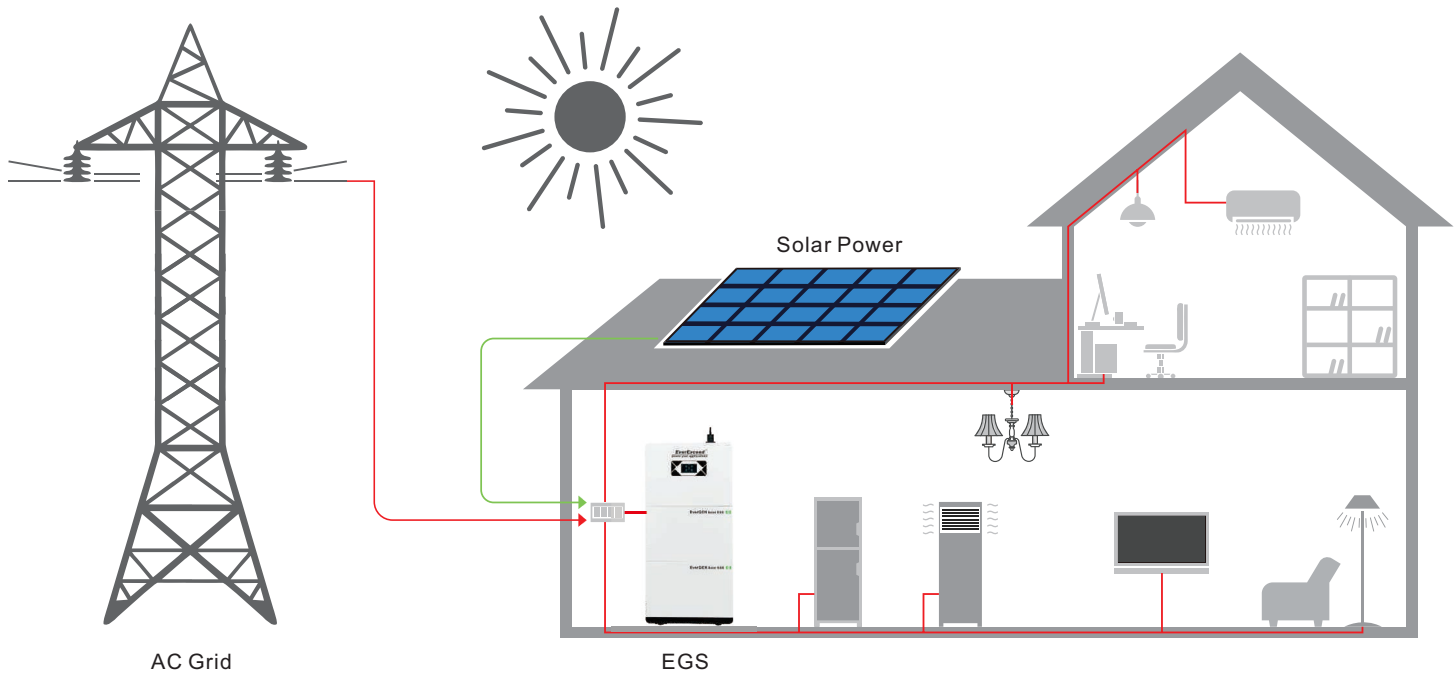
- 100% solar power: saving up to 100% of electricity bills;
- Highly integrated design: plug & play, easier to install;
- Modular and stackable design: saving 50% of installation time;
- Easier to expand: support expansion to 10 battery; modules, up to 51.2kWh.



Abundant Engineering Cases



System Diagram:



Technical Specification

Model		EGS5K - 5E Pro		EGS5K - 10E Pro		EGS5K - 15E Pro		EGS5K - 20E Pro	
System Specification									
Rated AC Output Power		5000W							
Energy Capacity Range		5.12kWh		10.24kWh		15.36kWh		20.48kWh	
Battery Type		Lithium Ion Battery (LFP, Lithium Iron Phosphate Technology)							
Max.AC Charging Current		80A							
Max.PV Charging Current		80A							
Max.Total Charging Current		80A							
Operating Temperature		-20°C to 50°C							
Storage Temperature		-30°C to 70°C							
Remote Monitoring		WiFi & APP							
Relative Humidity		0~95%(no condensation)							
Operating Altitude		2000m							
Protection Degree		IP21							
System Dimension	Width	600mm		600mm		600mm		600mm	
	Depth	260mm		260mm		260mm		260mm	
	Height	860mm		1240mm		1620mm		2000mm	
	Weight	71kg		121kg		171kg		221kg	
Cooling Method		Fans							
PV String Input Specification									
Max.PV Input Power		5000W							
Max.PV Input Voltage		500VDC							
Recommend PV Input Voltage		360VDC							
MPPT Voltage Range		120to450VDC							
Max.PV Charging Current		80A							
Number of MPPT		1							
Inverter Specification									
Rated AC Output Power		5000W							
AC Input Voltage		90to280VAC							
AC Output Voltage		230VAC							
Rated Frequency		50 / 60Hz							
Max.AC Charging Current		80A							
Power Factor		1.0							
Norminal Output Wave Form		Pure Sine Wave							
Transfer Time		< 15ms							
Output THDi		<3%							
Max.PV to Load Efficiency		97%							
Max.Batteryto Load Efficiency		94%							
Battery Specification									
Normal Capacity		100Ah		200Ah		300Ah		400Ah	
Battery Voltage		51.2VDC							
Battery Quantity		1		2		3		4	
Energy Capacity		5.12kWh		10.24kWh		15.36kWh		20.48kWh	
CycleLife		≥ 6000 cycles@80% DOD							
Protection									
ShortCircuit Protection		Yes							
Overload Protection		Yes							
Over Temperature Protection		Yes							
Battery Voltage High/Low Protection		Yes							
AC Input Voltage High/Low Protection		Yes							



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