

EverExceed®
power your applications



SOLAR ENERGY STORAGE SOLUTION with **ADVANCED LITHIUM** TECHNOLOGY

Residential Solar Energy Storage Solution

EverGEN Solar Series

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

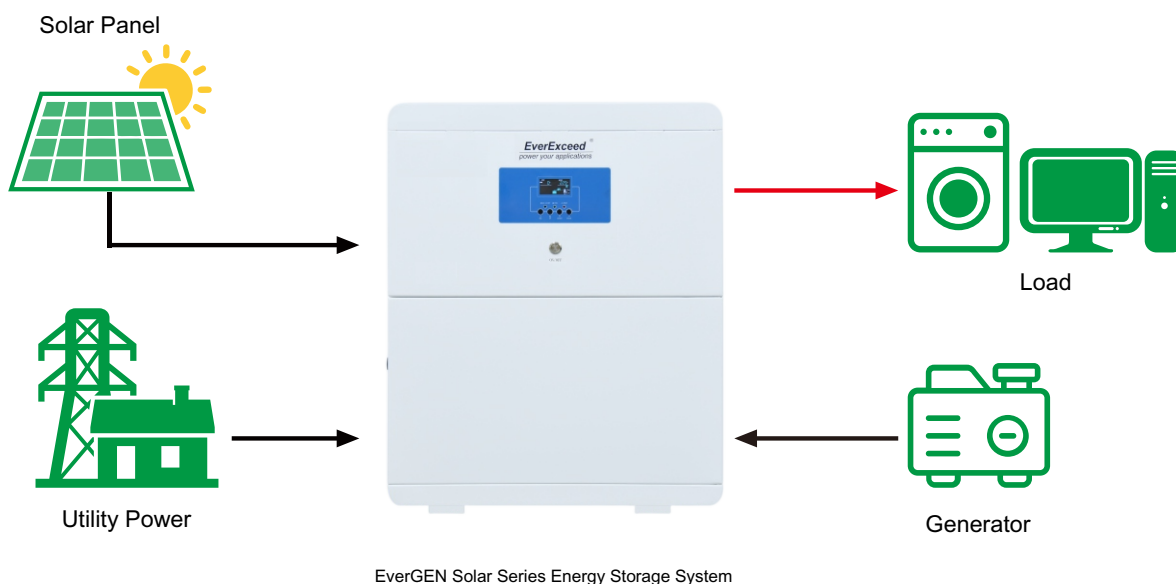
Are you looking for a backup power solution for your apartment, home, small office, clinic, restaurant etc. applications, where the grid connection is not stable and reliable?

Are you looking for a replacement for your portable generator to eradicate the fuel cost, noise pollution and environment pollution with smoke and bad smell?

If you have proper space and permission to install solar panels, EverExceed has the best Solar powered Backup energy storage solution to solve all of your problems.

Application

- Home, apartment or villa;
- Shops and groceries for small business;
- Small office or enterprise;
- Bank, ATM or financial institute;
- Clinic, health care or medical centers;
- School or baby care center;



Working Model

Mode 1: Energy saving 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: Solar first

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 FASTER CHARGING

This solution is consist of High quality EverExceed LDP Series Lithium battery which can be charged fully 4-5 times faster than the traditional lead acid batteries (within 3 hours), so whenever the grid comes back it gets ready to support you for the next blackout immediately.

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 24/7 UNINTERRUPTED POWER SUPPLY

With the EverExceed perfect combination of high-quality inverter and battery, ensure you don't lose power ever. Now power all of your desired applications.

Ø EASY INSTALLATION, 1 PERSON IN 30 MINUTES

Modular type design and Pre-installed at the factory for faster and easier installation.

Ø SMART AND VISUALIZED MANAGEMENT OF YOUR ENERGY

Support mobile APP smart monitoring, help you to easily manage the energy at your finger tips.

Ø CARE THE CHILD, MORE SAFETY AND MORE FRIENDLY

All in one design, completely safe from inside out. Can be easily placed inside home, no risk for your precious children to touch and damage.



EverExceed LDP Series Lithium battery:

- 15+ years of design life;
- Super long cycle life, >3000cycle @100%DOD, 5-10times more than lead acid battery;
- Fast charging technology, can be fully charged within 3 hours, 4-5 times faster than lead acid battery;
- Smart battery, support optional EverExceed Bluetooth Monitoring, all battery parameters can be checked by the smart APP;
- 98% round trip efficiency, 20% high than lead acid battery, save your energy cost a lot.
- Super safe, using EverExceed special enhanced lithium iron phosphate technology and flame retardant technology, there is no safety risk, no possibility of fire and explosion;
- Super high quality, LDP series battery with CE, UL1642 and UL2054 certification.



High quality Lithium battery
EverExceed LDP Series battery

Technical specification:

Model		EGS3K-3E	EGS3K-4E	EGS3K-5E	EGS5K-5E	EGS5K-10E
System Specification						
Rated AC Output Power		3500VA/3500W			5500VA/5500W	
Surge AC Output Power		7000VA			11000VA	
Energy Capacity Range		3kWh	3.84kWh	5.12kWh	5.12kWh	10.24kWh
Battery Type		Lithium Ion Battery (LFP, Lithium Iron Phosphate Technology)				
Max. AC Charging Current		80A				
Max. PV Charging Current		100A				
Max. Total Charging Current		180A				
Operating Temperature		-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	Width	600mm			600mm	
	Depth	400mm			400mm	
	Height	800mm			1200mm	
Cooling Method		Fans				
PV String Input Specification						
Max. PV Input Power		5000W			6000W	
Max. PV Input Voltage		500VDC				
Recommend PV Input Voltage		360VDC				
MPPT Voltage Range		120 to 450VDC				
Max. PV Charging Current		100A				
Number of MPPTs		1				
Number of Strings per MPPT		1				
Inverter Specification						
Rated AC Output Power		3500W			5500W	
Surge AC Output Power		7000VA			11000VA	
DC Input Voltage		24VDC			48VDC	
AC Input Voltage		90Vac to 280Vac				
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		< 20ms				
Output THDi		<3%				
Max. PV to Load Efficiency		97%				
Max. Battery to Load Efficiency		94%				
Battery Specification						
Battery Model		LDP24-120	LDP24-150	LDP24-200	LDP48-100	LDP48-100
Norminal Capacity		120Ah	150Ah	200Ah	100Ah	200Ah
Battery Voltage		25.6VDC			51.2VDC	
Battery Quantity		1			1	2
Energy Capacity		3kWh	3.84kWh	5.12kWh	5.12kWh	10.24kWh
Cycle Life		≥ 3000 cycles@100% DOD				

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