

EverExceed[®]
power your applications



SOLAR ENERGY STORAGE SOLUTION

For Apartment, Bank, Small office etc.

Residential Solar Energy Storage Solution

EverGEN Solar Series

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

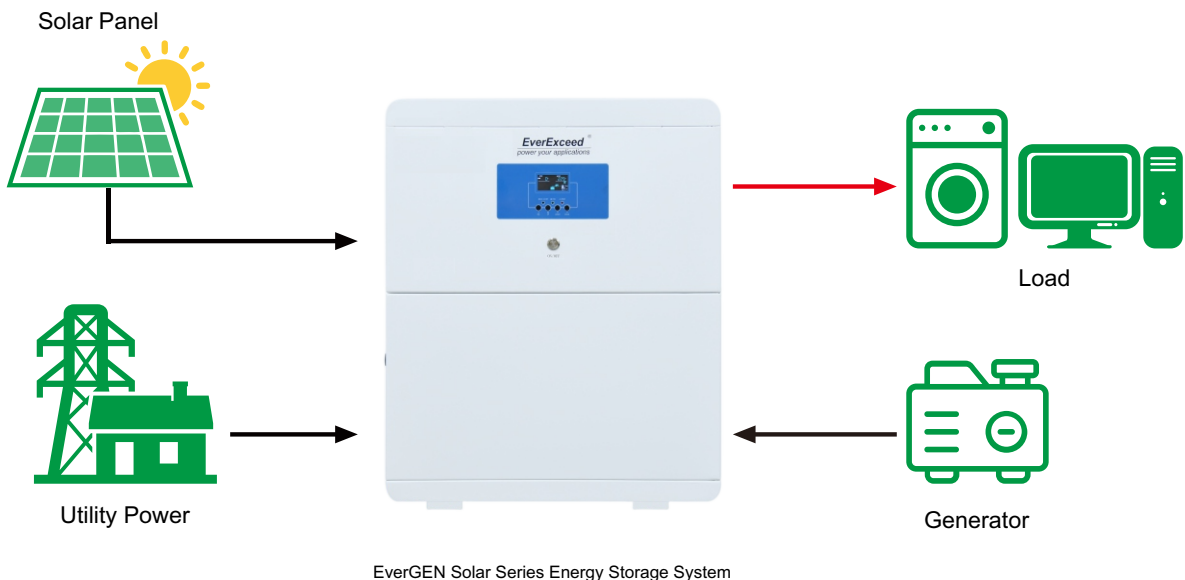
Are you looking for a backup power solution for your apartment, home, small office, clinic, restaurant etc. applications, where the grid connection is not stable and reliable?

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 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 High Performance Deep Cycle VRLA battery:

- ◆ 12+ years of design life;
- ◆ EverExceed's special advanced long deep cycle life technology, $\geq 50\%$ service life increased;
- ◆ Best in the market 99.994% pure lead used in every single battery;
- ◆ Advanced lead high-tin low-calcium alloy, reduces grid corrosion and promotes long battery life;
- ◆ Optimized high-compression Absorbed Glass Mat (AGM) materials significantly enhance performance and reliability, greater than 99% recombination efficiency;
- ◆ Advanced triple stage unique terminal sealing design to ensure leak free operation;
- ◆ Designed to withstand extreme temperature degrees and performance without degradation;
- ◆ Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L.924,
- ◆ Have the professional certification of UL1989, CE, IEC 60896;



High quality VRLA battery
EverExceed FT Series battery

Technical specification:

Model	EGS3K-2.4E	EGS3K-3.6E	EGS3K-5E	EGS5K-5E	EGS5K-7.2E	EGS5K-10E
System Specification						
Rated AC Output Power	3500VA/3500W			5500VA/5500W		
Surge AC Output Power	7000VA			11000VA		
Energy Capacity Range	2.4kWh	3.6kWh	4.8kWh	4.8kWh	7.2kWh	9.6kWh
Battery Type	Deep Cycle Lead-Acid					
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. DC Input Power	5000W			6000W		
Max. DC Input Voltage	500VDC					
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					
Normal 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	FT12V100B	FT12V150	FT12V200	FT12V100B	FT12V150	FT12V200
Battery Quantity	2			4		
Normal Capacity	100Ah	150Ah	200Ah	100Ah	150Ah	200Ah
System Normal DC Voltage	24V			48V		
Energy Capacity	2.4kWh	3.6kWh	4.8kWh	4.8kWh	7.2kWh	9.6kWh
Cycle Life	> 800 cycles@80% DOD					

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