







EverGEN Solar Pro Energy Storage System

EverGEN Solar Pro ESS is all-in-one solar energy storage system that integrates a solar inverter, long-life LiFePO4 battery, and power distribution. During the day, the battery can be quickly filled with solar energy and released when it is needed. The energy stored in the battery can be used in the absence of solar energy or at night to meet the electricity needs of the home or business, and can also be used as your backup power supply in an emergency.

The EverGEN Solar Pro features an innovative wall-mounted design, with a sleek and practical thick casing, it combines functionality with aesthetics. The system integrates a high-efficiency MPPT charging module with a charging current of up to 60A, which can efficiently charge the battery in a short time to ensure uninterrupted power supply for key household loads such as PC, TV, lighting, air conditioners and refrigerators. It is an ideal choice for your home emergency backup power supply!

The advantage

-  Hybrid charging (Solar+AC), fast charging modules up to 120A;
-  Integrated design, easy and fast installation, saving up to 80% installation time;
-  10+ years design life & 6000+ cycle LiFePO4 battery life, 5 to 10 times longer than traditional lead-acid batteries;
-  Automatic switch working mode, to ensure that the load will not power off;
-  Sleek appearance, smart design, and space-saving wall-mounted installation;
-  Providing stable and reliable electricity in areas without electricity can save up to 100% on electricity bills;

Single line diagram



Technical Specification

Model	EGS1K-2.5E Pro	EGS2K-5.1E Pro	EGS3K-5.1E Pro
System Specification			
Rated AC Output Power	1200W	2000W	3000W
Energy Capacity Range	2.56kWh	5.12kWh	5.12kWh
Battery Type	Lithium Ion Battery (LFP, Lithium Iron Phosphate Technology)		
Max. AC Charging Current	60A		
Max. PV Charging Current	60A		
Max. Hybrid Charging Current	120A		
Operating Temperature	-20°C to 50°C		
Storage Temperature	-30°C to 70°C		
Relative Humidity	0~95%(no condensation)		
Operating Altitude	2000m		
Protection Degree	IP21		
System Dimension	Width	360mm	433mm
	Depth	152mm	165mm
	Height	630mm	750mm
	Weight	32kg	60kg
Cooling Method	Fans		
PV String Input Specification			
Max. PV Input Power	1000W	1500W	
Max. PV Input Voltage	125VDC	145VDC	
Recommend PV Input Voltage	85VDC	110VDC	
MPPT Voltage Range	60-85VDC	75-110VDC	
Max. PV Charging Current	60A	60A	
Inverter Specification			
Rated AC Output Power	1200W	2000W	3000W
AC Input Voltage	90Vac to 280Vac		
AC Output Voltage	230Vac		
Rated Frequency	50 / 60Hz		
Max. AC Charging Current	60A		
Power Factor	1.0		
Norminal Output Wave Form	Pure Sine Wave		
Transfer Time	< 15ms		
Max. PV to Load Efficiency	97%		
Max. Battery to Load Efficiency	91%		
Battery Specification			
Norminal Capacity	200Ah		
Battery Voltage	12.8VDC	25.6VDC	
Battery Quantity	1	1	
Energy Capacity	2.56kWh	5.12kWh	
Cycle Life	6000+ times cycle Life		
Protection			
Short Circuit 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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the Energy you Expect forever.

www.everexceed.com



Headquarter:
Shenzhen EverExceed Industrial Co., Ltd.

Section A, Floor 19, Senhainuo Kechuang Building,
DeZhengRoad No.5, Shilong Community, Shiyuan,
Bao'an District, Shenzhen, China

www.everexceed.com

<https://everexceedcorp.com>

marketing@everexceed.com

Branch Company:

EverExceed International Company Limited (HK)

19H Maxgrand Plaza No3 Tai Yau St San PO Kong KLN Hongkong

info@everexceed.com

EverExceed International (UK) Limited

63-66 HATTON GARDEN FIFTH FLOOR, SUITE23 LONGDON
UNITED KINGDOM

Europe@everexceed.com