

Residential Hybrid Solar Energy Storage Solution

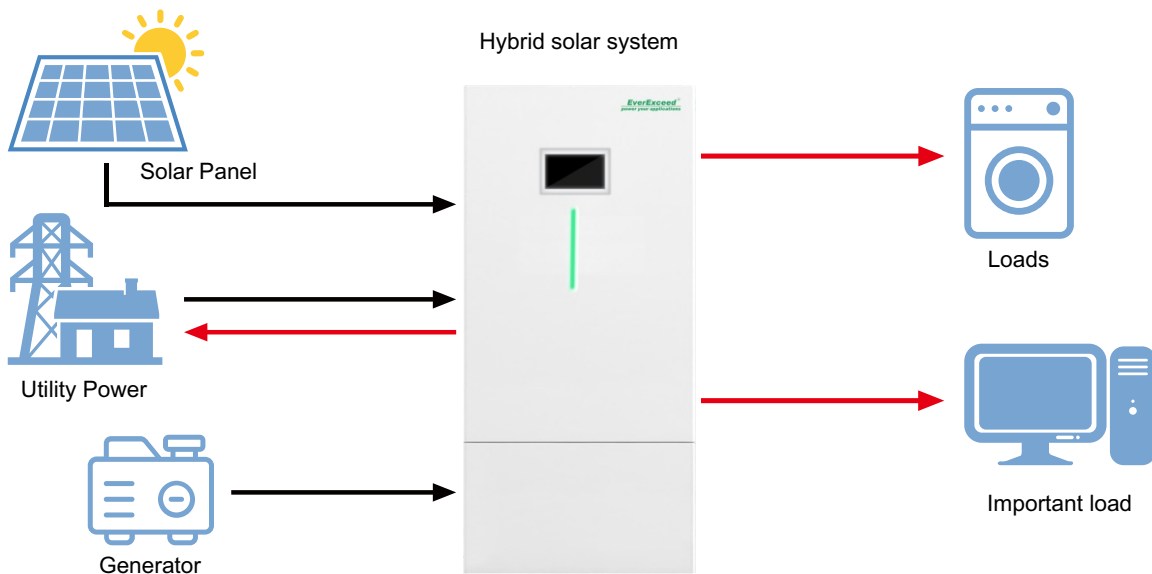
EverPower Star Series

For home, office, bank, hospital, area with weak or no grid etc. applications

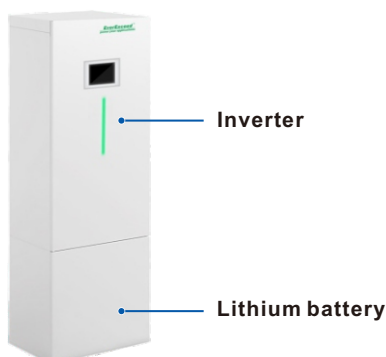
Are you looking for a power solution for your home, office, bank, hospital etc. applications where the grid connection is not very reliable? If you have plenty of space to install solar panels and can get the best output from the Sun which can help you to produce more energy than you actually need for your application; EverExceed has the best hybrid energy storage solution for you by which you can actually sell the extra energy back to the electricity company.

EverExceed Hybrid Solar energy storage solution is composed with simple but robust electrical interface which provides a trouble-free connection to any home or buildings. Its revolutionary state of art design achieves market leading energy density, easier installation, enabling owners to quickly utilize the benefits of reliable, clean power.

This Solution is available as “All in One” solution, but also the cabinet / rack, battery, inverter etc. components can be organized separately as per the customer requirements.



All in one solution



Advantage of all in one solution:

- Due to compact solution requires less space and since it's pre-configured in the factory, requires less man power to install. Which makes this solution financial viable to all.
- The plug and play solution that has all components integrated in one box. The system has identical connection points, which make the installation and maintenance fast and easy. Thanks to its modular design components can be adapted to the required system size;
- Scalable for larger capacity;
- Due to modular design of lithium battery, it is easy to expand the solution to suit the energy consumption. The 5kWh battery modular design makes it easy and flexible to expand to 5 to 30kWh.

Application:

- Power supply in remote powered area where AC power is not consistent;
- Office or enterprise where UPS is required;
- Bank, ATM or financial institute;
- Hospital, health care or medical centers;
- School or baby care center;
- Outdoor power for lighting, cooking, entertainment, agricultures, fisheries etc;

Specifications:

Model	EPH3K-5E	EPH3K-10E	EPH5K-5E	EPH5K-10E	EPH5K-15E	EPH5K-20E	EPH5K-30E
System Specification							
Rated AC Output Power	3000W	3000W	5000W	5000W	5000W	5000W	5000W
Max.output power	3000VA	3000VA	5000VA	5000VA	5000VA	5000VA	5000VA
Output Overload Protection	At 110% load : reporting error and turn off the output after 60s; At 120% load : reporting error and turn off the output after 30s; At 150% load : reporting error and turn off the output after 10s;						
Energy	5.12kWh	10.24kWh	5.12kWh	10.24kWh	15.36kWh	20.48kWh	30.72kWh
Battery Type	LiFePO4 Battery						
Operating Temperature Range	-25°C to 60°C						
Storage Temperature Range	-25°C to 60°C						
Humidity	0~95%(no condensation)						
Altitude	0~2000m						
Noise	≤35dB						
IP Protection	IP21						
Dimensions	W	650mm	650mm	650mm	650mm	650mm	650mm
	D	400mm	400mm	400mm	400mm	400mm	400mm
	H	1300mm	1300mm	1300mm	1300mm	1700mm	1700mm
Inverter Specification							
Maximum PV Open Circuit Voltage	550Vdc						
Start-up voltage	120Vdc						
MPPT Voltage Range	125-500Vdc						
Maximum Input Power	4600W	4600W	7000W	7000W	7000W	7000W	7000W
Maximum Solar Charge Current	95A(Adjustable)						
Charge Short-Circuit Protection	Operational amplifier comparator						
Rated AC Output Power	3000W	3000W	5000W	5000W	5000W	5000W	5000W
DC Input Voltage	48Vdc						
DC Input Voltage Range	40~58Vdc						
AC Input Voltage	230Vac(176~270Vac)						
AC Output Voltage	230Vac(176~270Vac)						
Rated Frequency	50/60Hz						
Max. AC Current	13A	13A	26A	26A	26A	26A	26A
Power Factor	1.0						
Output Wave Form	Pure Sine Wave						
Transfer Time	< 20ms						
Battery Specification							
Model	EP-48100M	EP-48100M	EP-48100M	EP-48100M	EP-48100M	EP-48100M	EP-48100M
Quantity	1	2	1	2	3	4	6
Capacity	100Ah	100Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Energy	5.12kWh	10.24kWh	5.12kWh	10.24kWh	15.36kWh	20.48kWh	30.72kWh
Cycle Life	> 6000cycles@100% DOD						

*Note: The system cabinet can be customization (ODM / OEM).