



EVERPOWER STAR

ENERGY STORAGE SYSTEM

EverPower Star Series Energy Storage System

Overview

EverExceed is one of the pioneers in the energy industry. With the expertise of energy industry, the company is also now contributing more in the residential and commercial market with the continuous innovation on Energy Storage System.

Among them, EverPower Star series composed with simple but robust electrical interface which provides a trouble-free connection to any home or buildings. Its revolutionary compact design achieves market-leading energy density, easier installation, enabling owners to quickly utilize the benefits of reliable, clean power.

Feature



Modularity

Modular design for easy installation, the system is compact with hybrid inverter.



Flexible investment

Due to modular design of lithium battery, easy to expand the solution to suit the energy consumption. 8kWh battery modular design, easy and flexible to expand to 16 to 48kWh.



Compatibility

This solution is compatible with any grid-tie inverter on the market today.



More usable energy

Energy Optimization function ensures 100% DOD of the pack that provides ultra long cycle life of >4000 cycles @100% DOD @25°C



High reliability

Passed the salt spray test, extreme high and low temperature test which ensures stable performance in harsh environment.



Cycle strength

High charging cycle strength, deep discharge and short charging times.



Smart Energy Management

Smart monitoring of the device ensures any error can be detected at the earliest possible of time with the web and mobile monitoring function with a reliable service network.



Sell solar power with ease with true hybrid functionality

If the generated energy by the solar panel is more than the load required energy after storing energy to the battery, that excessive amount of energy can be sold to the grid company to gain more profit.

* This function depends on different country's regulation of selling energy to the grid.

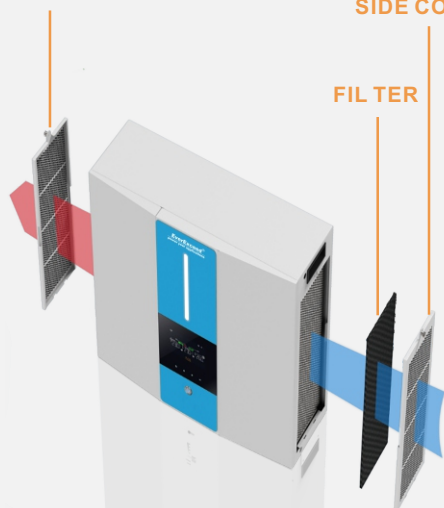


Construction of the system

SIDE COVER

SIDE COVER

FILTER



AC BREAKER

PV SWITCH

DC BREAKER

PV IN

DC CONNECTOR

BATT BREAKER

AC IN



Technical datasheet

System Model **EPS5K-8D**
(16D/ 24D/ 32D/ 40D/ 48D-Optional)

DC input

Max.PV input power	6500W
Max.PV input voltage	500V
Startup voltage	116V
MPPT voltage range	120V~450V
No. of MPPT	2
Max. number of PV strings per MPPT	2
Battery input voltage	48VDC

AC input and output

Rated AC output power	5000W
Max. AC output power	5500W
AC input voltage range	170~280VAC
Nominal AC input voltage	230VAC
Max. AC input current	40A
AC output voltage range	184 - 265 VAC
Rated AC output voltage	208/220/230/240VAC
Max. output current	24A
Nominal output frequency	50/60Hz
Power factor	0.8 leading - 0.8 lagging
THDi	<3%

Battery Module

Battery model	EP-48165M
Battery technology	LiFePO4
Nominal battery voltage	48V
Battery voltage range	40.5V~54V
Battery capacity	165Ah
Module capacity	8kWh
Max. charging current	100A
Max. discharging current	100A
Module dimension (W×H×D)	550*621*214 mm
Net Weight	55kg

Battery box

Maximum number of battery modules in parallel	6
Storage capacity	8kWh~48kWh
Nominal voltage	48V
Battery voltage range	40.5V~54V
Cooling	Natural
Protection	Short circuit, over charge, over discharge, under charge, under discharge, over/ under temperature.

General specifications

Ingress Protection	IP21
Discharging temperature range	-20 °C ~60°C
Charging temperature range	0 °C ~60°C
Storage temperature range	-20 °C ~60°C
Communication	4G/ WIFI/ Bluetooth optional
Remote access	APP/ Website
Inverter warranty	2 years
Battery warranty	5 years

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EverExceed Corporation

