

EverExceed[®]
power your applications



EverPower

Industrial & Commercial Series Energy Storage System



EverExceed is proud to announce our high voltage energy storage system serving the commercial / industrial / grid level customers.

EverPower Industrial&Commercial ESS with its All-in-one design concept, enables the highest flexibility both for rack mounted and cabinet based constructions, giving the flexibility for customer to deploy the system nearly in any nodes in the grid, supporting the services such as emergency power, new energy stabilizer, energy shifting, load shaving, grid stabilizer, frequency responding. With our deep experience in BESS (battery energy storage system), vertical industrial chain consolidation and fantastic ROI control, this solution will be your trusted system in all ESS.

ADVANTAGE

Integrated solution

Highly integrated PCS, Battery, EMS and all accessories, it can be expanded PV input.

Easy to use

Multiple working mode programmable, seamless transfer from on-grid to off-grid, maximize solar energy self-consumption.

Safe and reliable

Comprehensive protections to protect inverter as well as battery, high quality output power.

Smart O&M

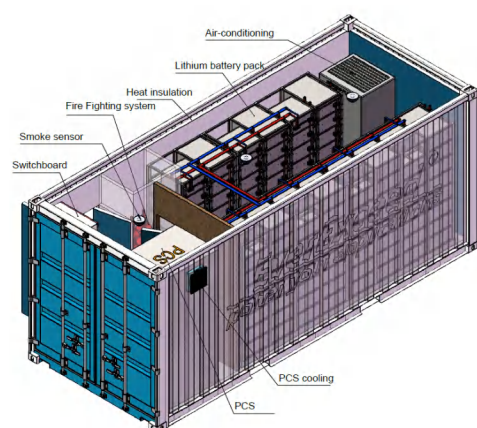
Modbus and CAN protocol for remote monitoring and management.

Wide output power range & huge energy storage

Output Power: 30kW~500kW
Energy Storage Capacity: 50kWh~1MWh

Flexible

The system is flexible and can be deeply customized, and any unit can be increased or decreased.



APPLICATION

- Power grid
- Commercial applications
- Stadium
- Industrial applications
- Substation
- Refugee camps

EverPower Industrial & Commercial Series System

EverPower Industrial & Commercial ESS is integrated and easy to access, eliminating many installation and debugging issues.

It can provide on-site independent standby power supply for basic equipment to reduce economic risks, while helping to reduce the impact of rising rates and fluctuations in power supply in factories, banks, hotels, schools, shopping malls, governments, hospitals, buildings, etc.

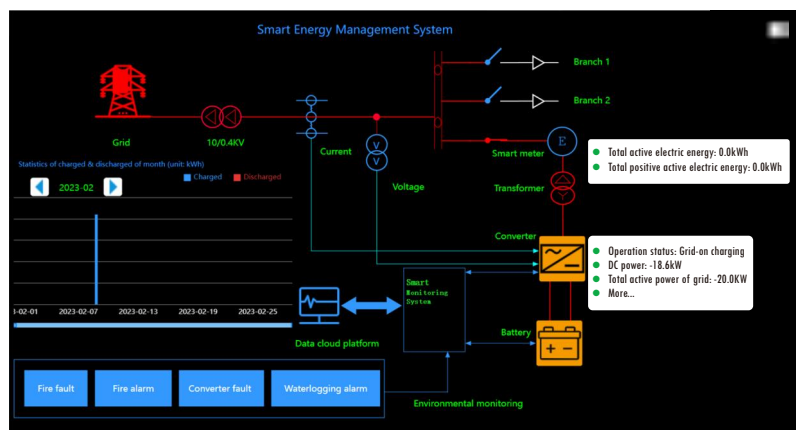
FEATURES

- Support customized energy scheduling strategies to meet different usage needs;
- It has the function of independent frequency and pressure regulation and controlled frequency and pressure regulation;
- Support parallel operation and achieve redundant design;
- Flexible expansion of PV input;
- Support working modes: Peak Shaving / Peak Shaving, Demand Charge Management, Spot Market, Frequency Regulation;
- PCS has built-in isolation transformer, which is safe and reliable;
- High quality LiFePO4 battery, cycle times $\geq 6000@80\%$ DOD;
- Integrated design, easy to maintain and install;
- It has EMS and BMS communication serial ports and supports RS485 and CAN communication;
- Comprehensive protection function;
- EMS intelligent management (remote monitoring and control);
- Intelligent website and APP management system background, easy to operate and set;
- Built-in maintenance bypass switch to improve system safety;
- Built-in fire protection system, which automatically triggers fire protection system at high temperature to ensure system installation;
- Built-in smoke sensor, water sensor and access control sensor, intelligent management system;
- Heat dissipation: PCS bin is equipped with independent air duct+high speed fan, fast forced heat dissipation; The battery compartment is equipped with fully automatic control refrigeration / heating air conditioning;
- Outdoor cabinet / container is designed with IP55 protection grade to ensure the safety of internal equipment.

EMS (Energy Management Systems)

EMS (Energy management systems) are automation systems that collect energy measurement data from the field and making it available to users through graphics, online monitoring tools, and energy quality analyzers, thus enabling the management of energy resources.

All devices in the system communicate with the EMS, including the BMS. Through the EMS, you can view related data and set parameters to control PCS. Can also achieve remote monitoring and remote control.



CONTROL MODE

- **Manual control**

Realize the micro-grid start, stop and off-grid switching, PCS active and reactive power Settings, photovoltaic switch and active power Settings.

- **Automatic control**

According to the setting policy, it runs automatically under grid connection and off-grid.

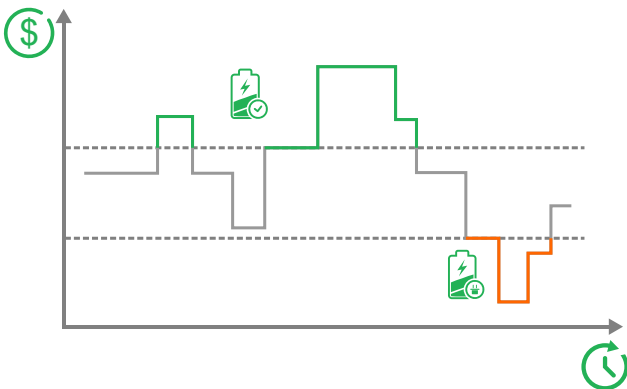
- **Remote control**

This function is reserved and accessed by the third-party system. EMS can control the operation of PCS according to the commands of the third-party system, and the system data can be sent to the third-party system.

BENEFIT

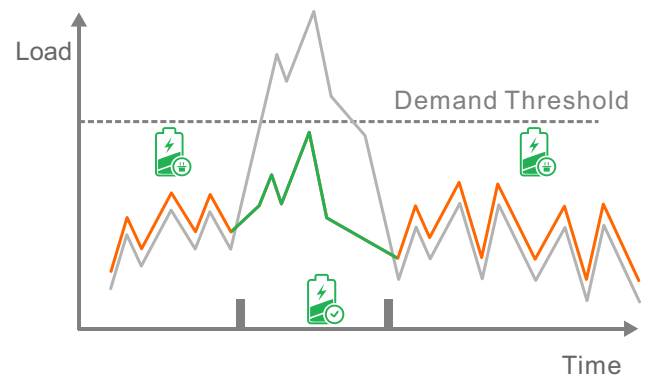
Spot Market

Spot Market work mode can be set the program of charge period, charge at low electric price, discharge at high electric price, that can save more in electric cost.



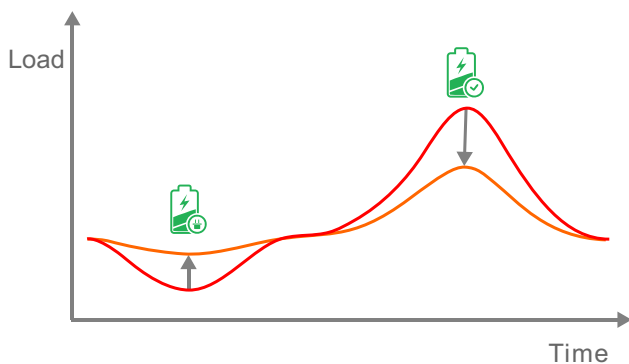
Demand Charge Management

Demand charge management is an application of that load flexibility software, which optimizes flexible loads for the purpose of reducing the customer's demand charges.



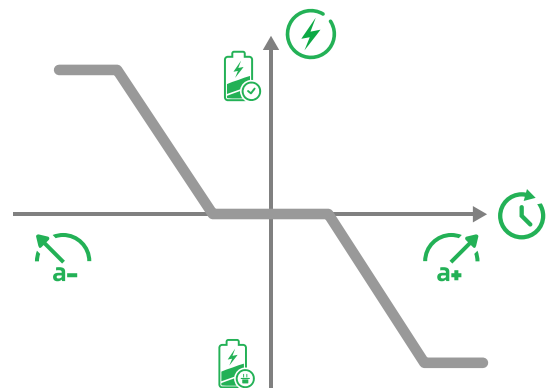
Peak shaving & Load shifting

With peak shaving, a consumer reduces power consumption ("load shedding") quickly and for a short period of time to avoid a spike in consumption. This mode can be realized through PCS and battery.



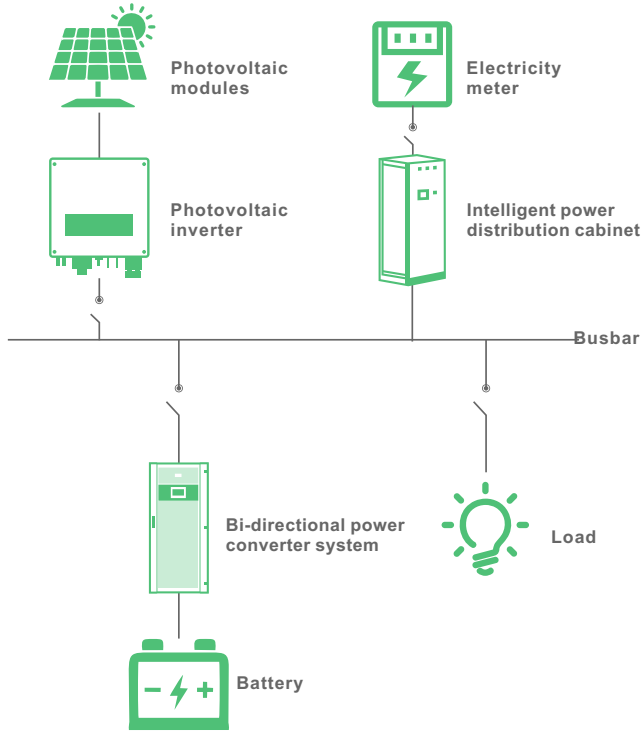
Frequency Regulation

Linear frequency regulation is an automatic control process in which EverPower control system automatically controls the increase or decrease of the active power of the unit, limits the change of the grid frequency and stabilizes the grid frequency when the grid frequency deviates from the rated value.

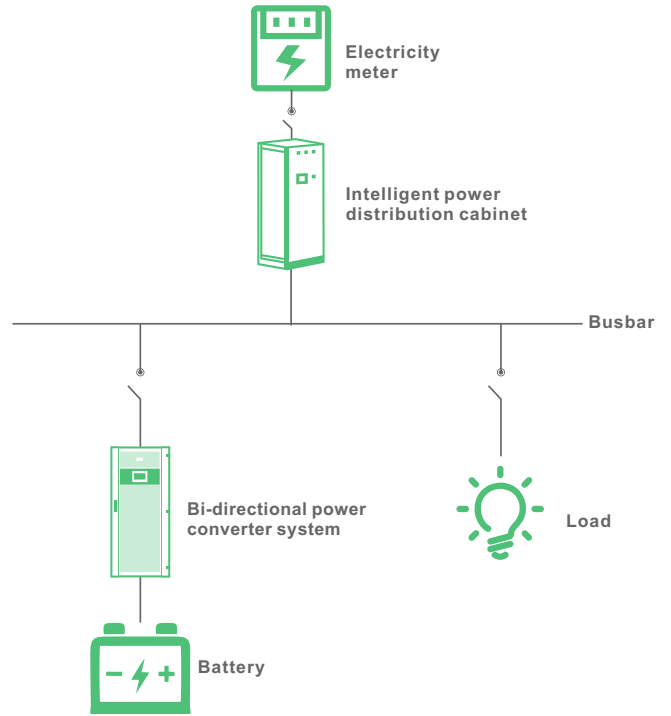


SINGLE LINE DIAGRAM

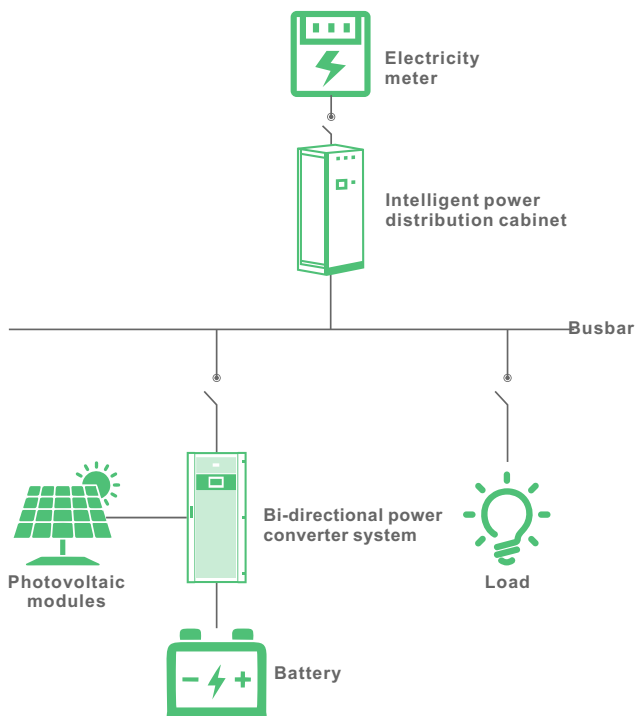
Micro Grid System



Backup System



Backup System



TECHNICAL SPECIFICATION

EverPower Industrial & Commercial

Model	CO30K-60E	CO30K-100E	CO50K-100E	CO100K-200E	CO150K-300E	CO250K-500E	CO500K-1000E
PCS							
Rated AC Output Power	30KW	30KW	50KW	100KW	150KW	250KW	500KW
Max. AC Output Power	33KVA	33KVA	55KVA	110KVA	165KVA	275KVA	550KVA
Battery Input Voltage Range	250~850V	250~850V	320~850V	420~850V	420~850V	420~850V	500~850V
Rated AC Voltage	400VAC, 3W+N+PE						
AC Voltage Range	320~460V						
Rated Frequency	50Hz/60Hz						
Frequency Range	45~55/55~65Hz						
Rated AC Output Current	43A	43A	72A	144A	216A	361A	722A
Max. AC Output Current	48A	48A	80A	159A	238A	397A	794A
Max. Efficiency	96.3%	96.3%	96.5%	97.1%	97.1%	97.3%	97.5%
On/Off grid switching	Automatic						
Cooling	Forced air						
Operating Temperature	-30°C~55°C						
THDi	< 3%						
Overload capacity	110% long-term						
Power Factor	1lagging-1leading						
Relative Humidity	0~95%, non-condensing						
Operating Altitude	5000m(> 3000m derating)						
Battery							
Battery Voltage	307.2V	512V	512V	512V	716.8V	512V	716.8V
Battery Voltage Range	260~345V	480~576V	480~576V	480~576V	560~806.4V	480~576V	560~806.4V
Battery Capacity	210Ah	210Ah	210Ah	420Ah	420Ah	1050Ah	1470Ah
Battery Energy	64.51kWh	107.52kWh	107.52kWh	215.04kWh	301.06kWh	537.60kWh	1053.69kWh
Battery Type	LiFePO4 battery						
Cycle Life	≥6000 at 80%DOD						
General							
Remote Monitoring (EMS)	Comply						
Lighting	Comply						
Smoke Sensor	Comply						
Access control sensor	Comply						
Fire protection system	Comply						
Air conditioner system	Comply						
Display	LCD touch-screen						
Ingress protection	IP55						

TECHNICAL SPECIFICATION

EverPower Industrial & Commercial PV

Model	CO30K-60E-PV	CO30K-100E-PV	CO50K-100E-PV	CO100K-200E-PV	CO150K-300E-PV	CO250K-500E-PV	CO500K-1000E-PV
PV							
Max. PV Input Voltage	1000V						
Max. PV Input Power	60/120KW	60/120KW	60/120KW	120/180/240KW	120/180/240KW	300/360KW	600/660/720KW
MPPT Voltage Range	250-850V						
MPPT Voltage Range@Full Load	450-850V						
PCS							
Rated AC Output Power	30KW	30KW	50KW	100KW	150KW	250KW	500KW
Max. AC Output Power	33KVA	33KVA	55KVA	110KVA	165KVA	275KVA	550KVA
Battery Input Voltage Range	250~850V	250~850V	320~850V	420~850V	420~850V	420~850V	500~850V
Rated AC Voltage	400VAC, 3W+N+PE						
AC Voltage Range	320~460V						
Rated Frequency	50Hz/60Hz						
Frequency Range	45~55/55~65Hz						
Rated AC Output Current	43A	43A	72A	144A	216A	361A	722A
Max. AC Output Current	48A	48A	80A	159A	238A	397A	794A
Max. Efficiency	96.3%	96.3%	96.5%	97.1%	97.1%	97.3%	97.5%
On/Off grid switching	Automatic						
Cooling	Forced air						
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Display	LCD touch-screen						
Ingress protection	IP55						

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EverExceed Empower, Energize, Exceed the Energy you Expect forever.



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