

Foxpower energy storage system is integrated Inverter charger, lithium iron phosphate battery module with smart BMS control system. Based on excellent cell technology, our innovations make your energy storage system more enhanced and valuable.

With its integration, miniaturization, light-weight, intelligent centralized monitoring, battery maintenance and management, unattended, energy conservation and environmental protection, are widely applied in remote access network equipment, remote switch unit, mobile communication, transmission equipment, home energy storage and other areas as a backup power supply.

Features

- High overload ability up to 300% rated power for 20 second. It is ideal to operate sensitive electric and electrical equipment.
- Pure sine wave output wave to protect the precision equipment.
- 15s delay before transfer when AC resumes, protect load when used with generator.
- Power save mode to reduce the idle consume to save your money!
- Auto Generator Start (AGS) function to start the generator automatically to protect the battery when the battery capacity too low.
- Long battery life cycle can reach 4000 times RT 80% DOD, 6000 times RT 60% DOD
- Battery system with high working temperature, working temperature could be in -20~+60 degree. greatly reduce the cost of equipment.
- Flexible configuration: multiple battery modules could be used in parallel to make communication battery system of large capacity into practical application, both is to increase the output power of the system, and extend the backup time of the system.



ESS-M Series



ESS-S Series

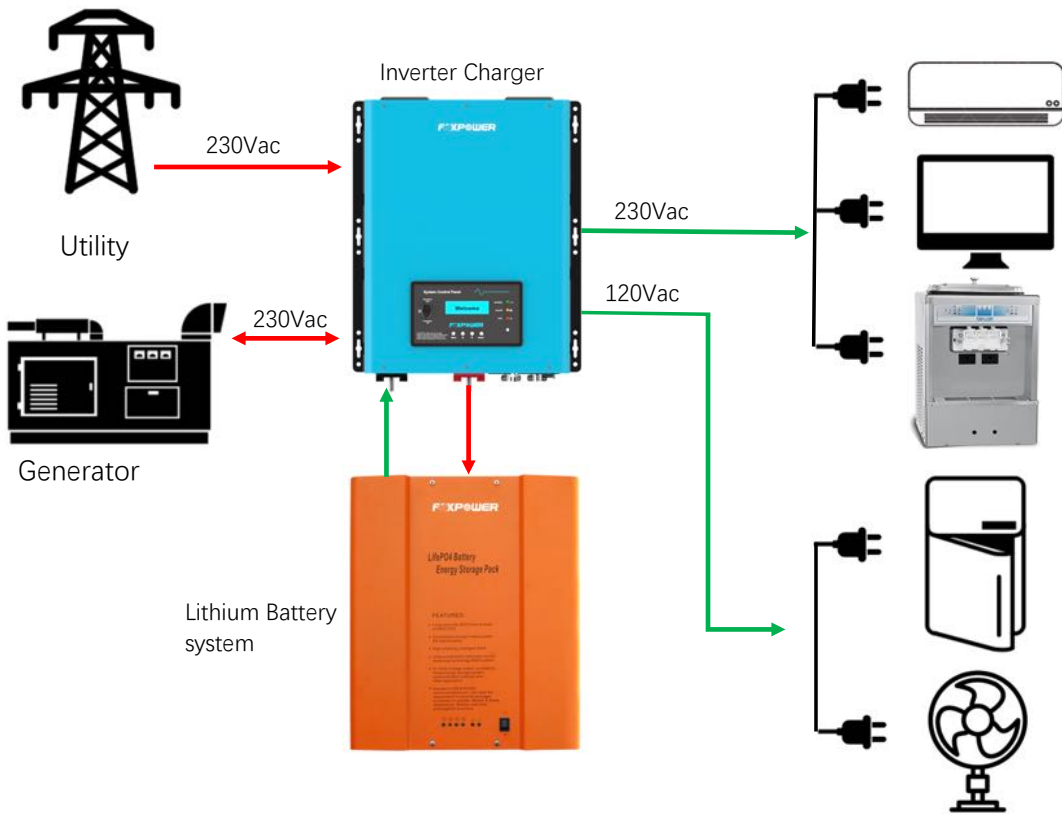
Specification

Models	ESS-M-24805S	ESS-M-32415S	ESS-M-44810S	ESS-M-64815S	ESS-M-24805	ESS-M-32415	ESS-M-44810	ESS-M-64815
Inverter continuous output power	2000W	3000W	4000W	6000W	2000W	3000W	4000W	6000W
Inverter surge rating (20sec)	6000W	9000W	12000W	18000W	6000W	9000W	12000W	18000W
Capable of starting electric motor	2HP	3HP	4HP	6HP	2HP	3HP	4HP	6HP
Inverter output waveform	Pure sine wave				Pure sine wave			
Inverter AC input voltage	230Vac	230Vac	230Vac	230Vac	120Vac	120Vac	120Vac	120Vac
Inverter output voltage	230Vac/120Vac	230Vac/120Vac	230Vac/120Vac	230Vac/120Vac	120Vac	120Vac	120Vac	120Vac
Inverter DC input voltage	48Vdc	24Vdc	48Vdc	48Vdc	48Vdc	24Vdc	48Vdc	48Vdc
Inverter output frequency	50Hz±0.3Hz/60Hz±0.3Hz auto detect				50Hz±0.3Hz/60Hz±0.3Hz auto detect			
Inverter nominal efficiency	> 90%				> 90%			
Inverter line mode efficiency	> 95%				> 95%			
Short circuit protection	Yes, current limit function (fault after 1 sec)				Yes, current limit function (fault after 1 sec)			
Typical transfer time	< 10ms				< 10ms			
THD	< 10%				< 10%			
Charger input voltage range	Wide: 164-243Vac Narrow: 194-243Vac				Wide: 90-135Vac Narrow: 100-135Vac			
Max charging current	20A	45A	40A	60A	20A	35A	40A	60A
Mounting	Wall mount				Wall mount			
Inverter dimension	460*328*178mm				460*328*178mm			
Inverter weight	20kg	24kg	35kg	45kg	20kg	24kg	35kg	45kg
Inverter shipping dimension	580*450*285mm				580*450*285mm			
Inverter shipping weight	22kg	26kg	37kg	47kg	22kg	26kg	37kg	47kg
Display	LCD + status LEDs				LCD + status LEDs			
Inverter standard warranty	2 years				2 years			
Battery type	Lithium iron phosphate battery (LiFePO4)				Lithium iron phosphate battery (LiFePO4)			
Battery rated voltage	51.2Vdc	25.6Vdc	51.2Vdc	51.2Vdc	51.2Vdc	25.6Vdc	51.2Vdc	51.2Vdc
Battery rated capacity	50Ah	150Ah	100Ah	150Ah	50Ah	150Ah	100Ah	150Ah
Rated energy	2.6kWh	3.9kWh	5.2kWh	7.8kWh	2.6kWh	3.9kWh	5.2kWh	7.8kWh
Battery operation temperature range@charging	0~45°C				0~45°C			
Max charge voltage	58.4±0.4V	29.2±0.2V	58.4±0.4V	58.4±0.4V	58.4±0.4V	29.2±0.2V	58.4±0.4V	58.4±0.4V
Battery rated charge voltage	56.0±0.4V	28.0±0.2V	56.0±0.4V	56.0±0.4V	56.0±0.4V	28.0±0.2V	56.0±0.4V	56.0±0.4V
Battery rated charge current	30A	75A	50A	75A	30A	75A	50A	75A
Battery rated discharge current	50A	150A	100A	150A	50A	150A	100A	150A
Battery communication	RS485, for LCD remote control (option)							
CAN communication	PC control and monitor							
Battery warranty	3 years							
Mounting	Wall mount				Wall mount			
Battery pack Dimension (mm)	435*400*238	500*530*188	680*400*230	805*530*188	435*400*238	500*530*188	680*400*230	805*530*188
Battery weight	36.25kg	50kg	63.5kg	100kg	36.25kg	50kg	63.5kg	100kg
Battery shipping dimension (mm)	535*425*300	600*600*250	815*425*315	900*600*250	535*425*300	600*600*250	815*425*315	900*600*250
Battery shipping weight	40kg	65kg	78kg	120kg	40kg	65kg	78kg	120kg

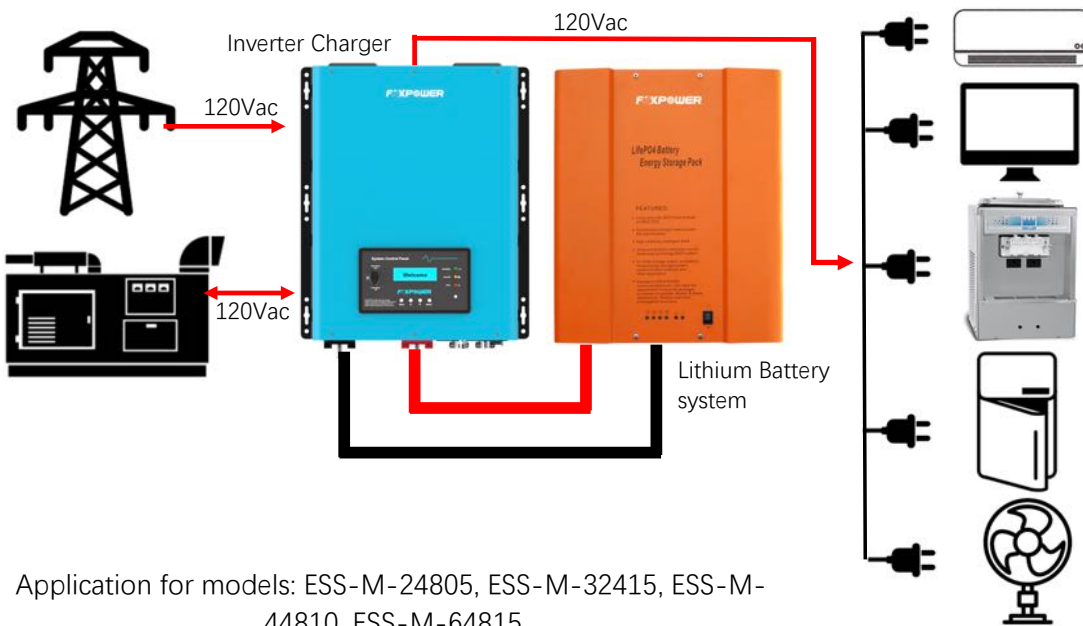
Specification

Models	ESS-S-124850S
Inverter continuous output power	12000W
Inverter surge rating (20sec)	36000W
Capable of starting electric motor	12HP
Inverter output waveform	Pure sine wave
Inverter AC input voltage	230Vac
Inverter output voltage	230Vac/120Vac
Inverter DC input voltage	48Vdc
Inverter output frequency	50Hz±0.3Hz/60Hz±0.3Hz auto detect
Inverter nominal efficiency	> 90%
Inverter line mode efficiency	> 95%
Short circuit protection	Yes, current limit function (fault after 1 sec)
Typical transfer time	< 10ms
THD	< 10%
Charger input voltage range	Wide: 164-243Vac Narrow: 194-243Vac
Max charging current	100A
Display	LCD + status LEDs
Inverter standard warranty	2 years
Battery type	Lithium iron phosphate battery (LiFePO4)
Battery rated voltage	51.2Vdc
Battery rated capacity	500Ah
Rated energy	26kWh
Battery operation temperature range@charging	0~45°C
Max charge voltage	58.4±0.4V
Battery rated charge voltage	56.0±0.4V
Battery rated charge current	300A
Battery rated discharge current	150A
Battery communication	RS485, for LCD remote control (option)
CAN communication	PC control and monitor
Battery warranty	3 Years
Battery pack Dimension (mm)	530*735*1600
Battery weight	450kg
Battery shipping dimension (mm)	780*830*1700
Battery shipping weight	500kg

Application

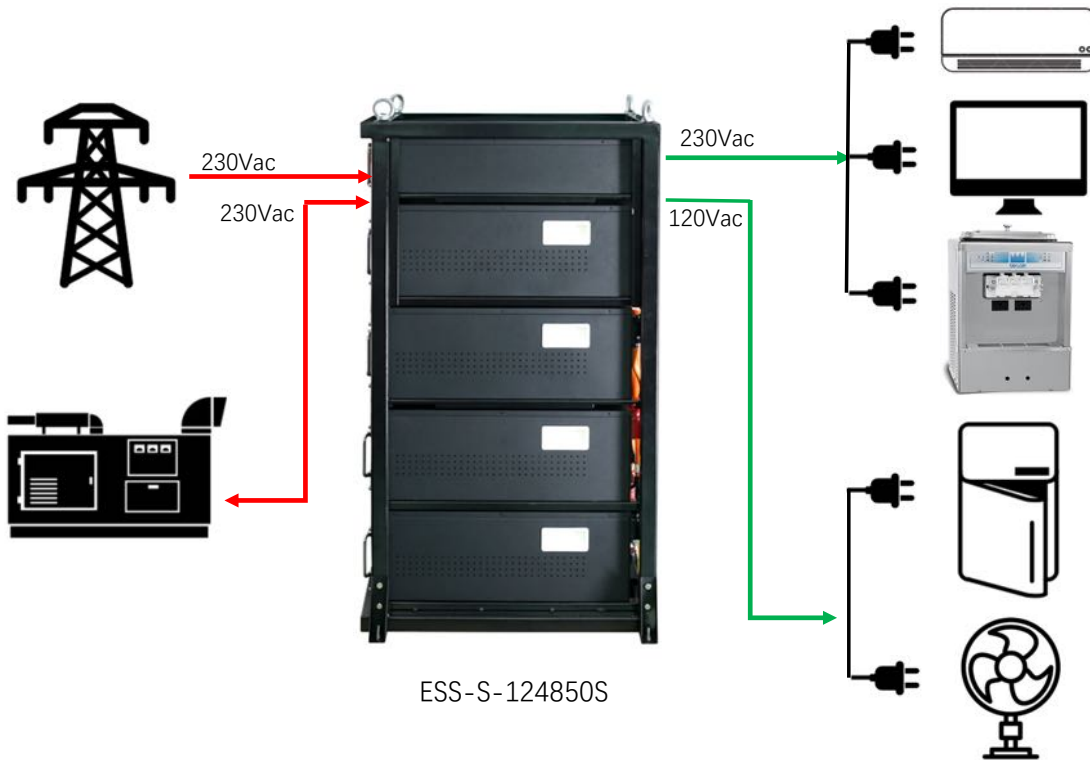


Application for Models: ESS-M-24805S, ESS-M-32415S, ESS-M-44810S, ESS-M-64815S



Application for models: ESS-M-24805, ESS-M-32415, ESS-M-44810, ESS-M-64815

Application



How to choose the energy storage system:

1. Need to know your loads. For example, if you need to power your home lights, TV, computer and refrigerator, you need to know their power and calculate the total power.
2. Tell us how long do you need to backup for your appliances. Like 2 hours or 4 hours and so on...
3. Calculate the total energy you need. And choose your energy storage system based on the total energy.
4. Refer to the below table to choose your right system.

Model	Inverter	Energy	Load					Backup time
			Refrigerator	Computer	TV	Lights	Rice cooker	
ESS-M-24805S	2000W	2.6kWh	100W	200W	200W	160W		4 hours
ESS-M-32415S	3000W	3.9kWh	100W	200W	200W	160W		6 hours
ESS-M-44810S	4000W	5.2kWh	100W	200W	200W	160W	1000W	3 hours
ESS-M-64815S	6000W	7.8kWh	100W	200W	200W	160W	1000W	4.5 hours
ESS-M-24805	2000W	2.6kWh	100W	200W	200W	160W	1000W	1.5 hours
ESS-M-32415	3000W	3.9kWh	100W	200W	200W	160W	1000W	2 hours
ESS-M-44810	4000W	5.2kWh	100W	200W	200W	160W	1000W	3 hours
ESS-M-64815	6000W	7.8kWh	100W	200W	200W	160W	1000W	4.5 hours
ESS-S-124850S	12000W	26kWh	100W	200W	200W	160W	1000W	15 hours