Flat-stacked energy storage system

10KW/10KWH 10KW/20KWH 10KW/30KWH 10KW/40KWH

INTRODUCTION

The Energy Storage Controller Inverter Integrated Machine combines the functions of inverter, MPPT solar controller and utility charging to provide stable power supply for power-using equipment in areas with no power, lack of power and unstable power. The product is based on a fully digital intelligent design with advanced SPWM technology, outputting pure sine wave, converting DC power into AC power, suitable for AC loads such as household appliances, power tools, industrial equipment, electronic video and audio. LCD screen display design, real-time display of system operation data and operating status. Comprehensive electronic protection function ensures the whole system is safer and more stable.

- ALL in one system
- Modular & Stacked Design
- Battery energy management system
- MPPT solarcharging
- Long service life
- With communication protocol

PRODUCT DESCRIPTION

- One-stop home solution
- Modular design and intelligent switching
- Each battery is equipped with an independent BMS battery energy management
- Support GPRS/WIFI/RS485, remote monitoring
- Warranty 3 years, 10+ years life design

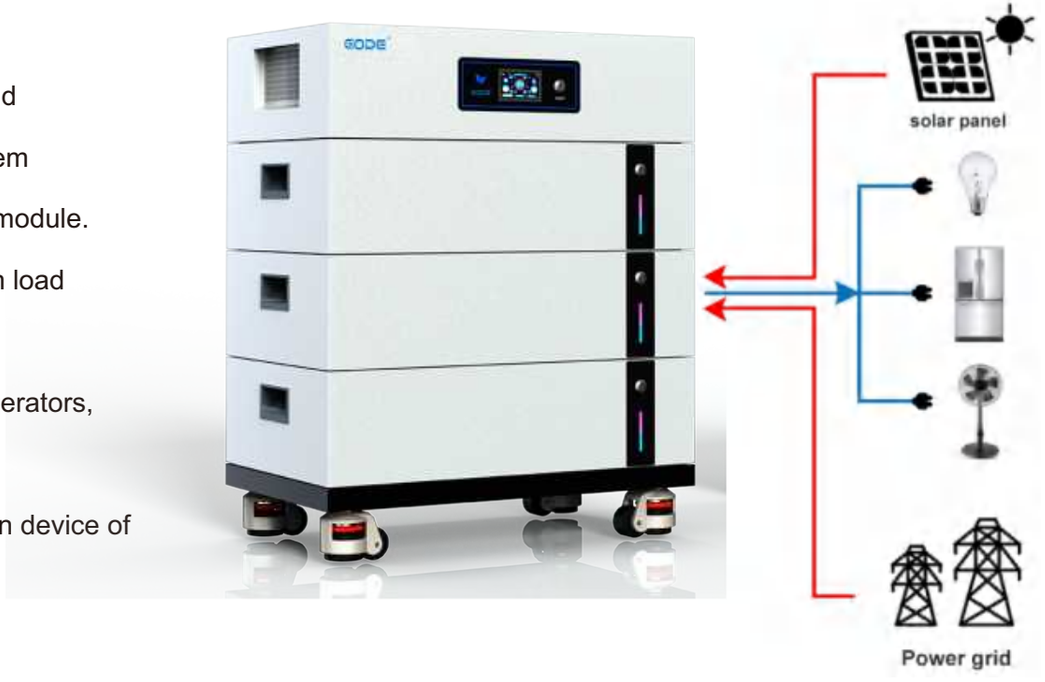
FUNCTIONAL FEATURES

- Pure sine wave inverters;
- Integrated MPPT controller/charger;
- Settable priority of utility and PV power supply;
- Wide PV input voltage;
- Using LiFePO4 battery, the battery has undergone strict safety testing, and the charging speed is fast, high temperature resistant, green environmental protection, non-toxic and pollution-free.
- Functions and parameters can be set via the LCD;
- With battery equalization function to optimize battery performance and extend battery life.

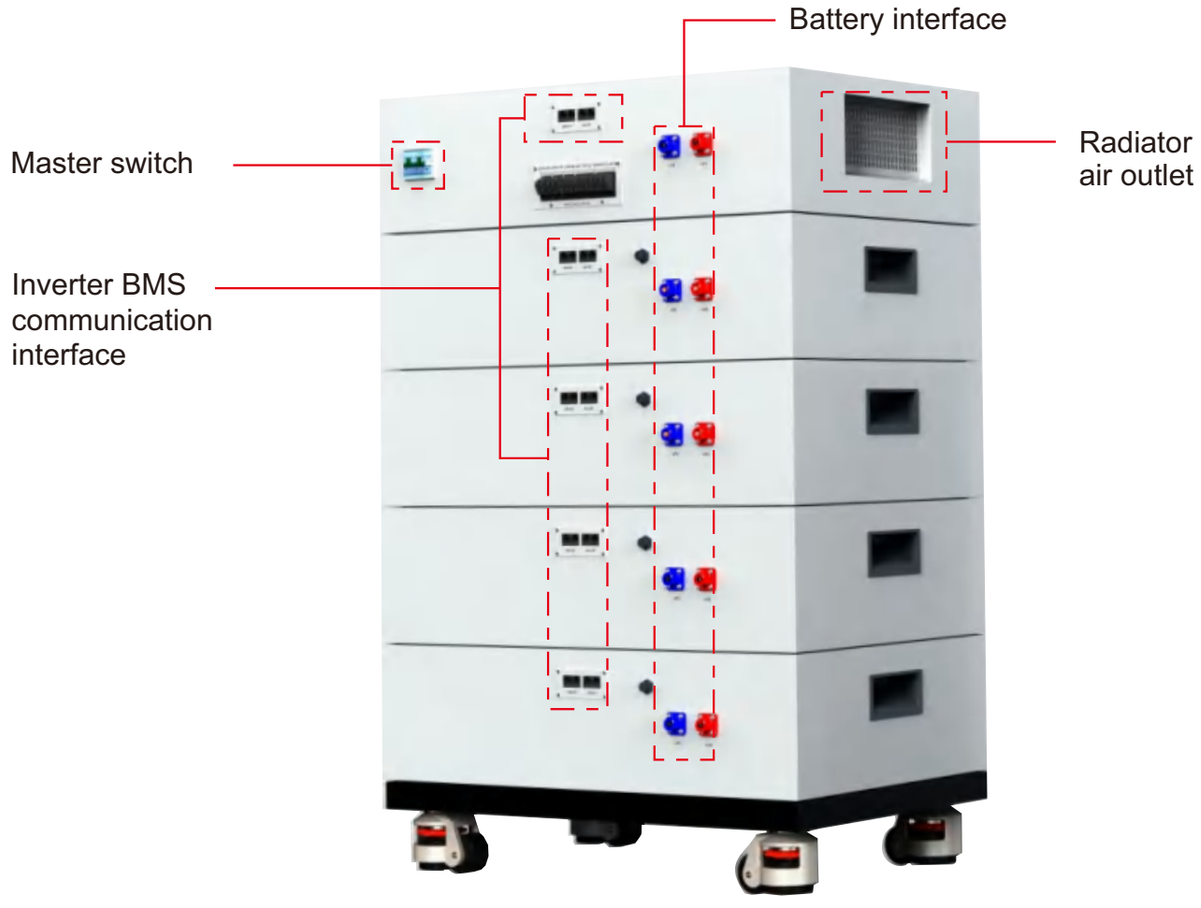
SYSTEM SCHEMATIC

The following figure shows the system application scenario of this product. A complete system includes the following parts:

1. Photovoltaic module: Convert light energy into DC electric energy, charge the battery through energy storage inverter, or directly reverse it into AC to power the load.
2. Utility or generator: Connected at the AC input, it can supply power to the load and charge the battery at the same time. If no utility or generator is connected, the system can also operate normally, when the load power is provided by the battery and PV module.
3. Battery: The role of the battery is to ensure the normal use of power for the system load when the solar energy is insufficient and there is no utility power.
4. Household load: It can access various household and office loads, including refrigerators, lamps, TV sets, fans, air conditioners and other AC loads.
5. Energy Storage Controller Inverter Integrated Machine: The energy conversion device of the whole system.



INTERFACE DESCRIPTION



PRODUCT DESCRIPTION

Model	DQ1912A10K-01
Rated Power	10KW
LiFePO4 Battery	200Ah/51. 2V
AC Output Voltage	230VAC
AC Output Frequency	50/60Hz
AC Input Voltage Range	170-280VAC
AC Input Frequency	50/60HZ
Maximum AC Input current/charging current	60A/150A
Maximum PV Voltage	500VDC
MPPT Voltage Range	120-450VDC
PV Charge Current	150A
Temperature For Operation	-20 - +50℃
Temperature For Storage	-30 - +70℃
External Dimensions	750*480*510mm
Warranty	3 years

10KW

10KWH

PRODUCT DESCRIPTION

Model	DQ1912B10K-01
Rated Power	10KW
LiFePO4 Battery	400Ah/51. 2V
AC Output Voltage	230VAC
AC Output Frequency	50/60Hz
AC Input Voltage Range	170-280VAC
AC Input Frequency	50/60HZ
Maximum AC Input current/charging current	60A/150A
Maximum PV Voltage	500VDC
MPPT Voltage Range	120-450VDC
PV Charge Current	150A
Temperature For Operation	-20 - +50℃
Temperature For Storage	-30 - +70℃
External Dimensions	750*480*682mm
Warranty	3 years

10KW

20KWH

PRODUCT DESCRIPTION

Model	DQ1912C10K-01
Rated Power	10KW
LiFePO4 Battery	600Ah/51. 2V
AC Output Voltage	230VAC
AC Output Frequency	50/60Hz
AC Input Voltage Range	170-280VAC
AC Input Frequency	50/60HZ
Maximum AC Input current/charging current	60A/150A
Maximum PV Voltage	500VDC
MPPT Voltage Range	120-450VDC
PV Charge Current	150A
Temperature For Operation	-20 - +50℃
Temperature For Storage	-30 - +70℃
External Dimensions	750*480*853mm
Warranty	3 years

PRODUCT DESCRIPTION

Model	DQ1912D10K-01
Rated Power	10KW
LiFePO4 Battery	800Ah/51. 2V
AC Output Voltage	230VAC
AC Output Frequency	50/60Hz
AC Input Voltage Range	170-280VAC
AC Input Frequency	50/60HZ
Maximum AC Input current/charging current	60A/150A
Maximum PV Voltage	500VDC
MPPT Voltage Range	120-450VDC
PV Charge Current	150A
Temperature For Operation	-20 - +50℃
Temperature For Storage	-30 - +70℃
External Dimensions	750*480*1025mm
Warranty	3 years

10KW

40KWH

APPLICATION

1. PV station
2. Wind Grid side power station
3. Frequency regulation
4. Grid side
5. Industrial and commercial

-New-energy generation: Effectively smoothen the power output to decrease the impact to the grid

-Generate according to the plan and correct forecast errors-Reduce the peak and fill the valley

-Grid frequency modulation with AVC and AGC functions-Electricity of transmission and distribution-Smart-Gridl

-Micro-grid- Reduce the peak and fill the valley-Military Base, smelter, chemical plant, paper mill, airport, wharf and others.