30KW/50KWH Outdoor ESS Cabinet
Product Specifications

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https://www.chinagode.com/

Product Introduction

An energy storage cabinet is a device that integrates an energy storage device and a power management system, which is mainly used to store electrical energy and release it when needed.

The concept of an energy storage cabinet is to centrally store electrical energy in order to supply power during peak power demand or in case of emergency. It mainly consists of a battery, an inverter, and a control system. The battery is the core component of the energy storage cabinet, which can convert electrical energy into chemical energy and store it. The function of the inverter is to convert the stored DC energy into alternating current energy for the use of various electrical equipment.
The control system manages, optimizes energy use, and protects battery life.

GODE's Series 50kwh commercial & industrial energy storage system adopts the all in one design concept.
The cabinet is integrated with battery management system (BMS), energy management system (EMS),modular power conversion system (PCS),and fire protection system.
The system's capacity is up to 50 kwh and the power is up to 30 kw. The modular design allows for flexible expansion, adapting to various scenarios such as power expansion and backup power supply.

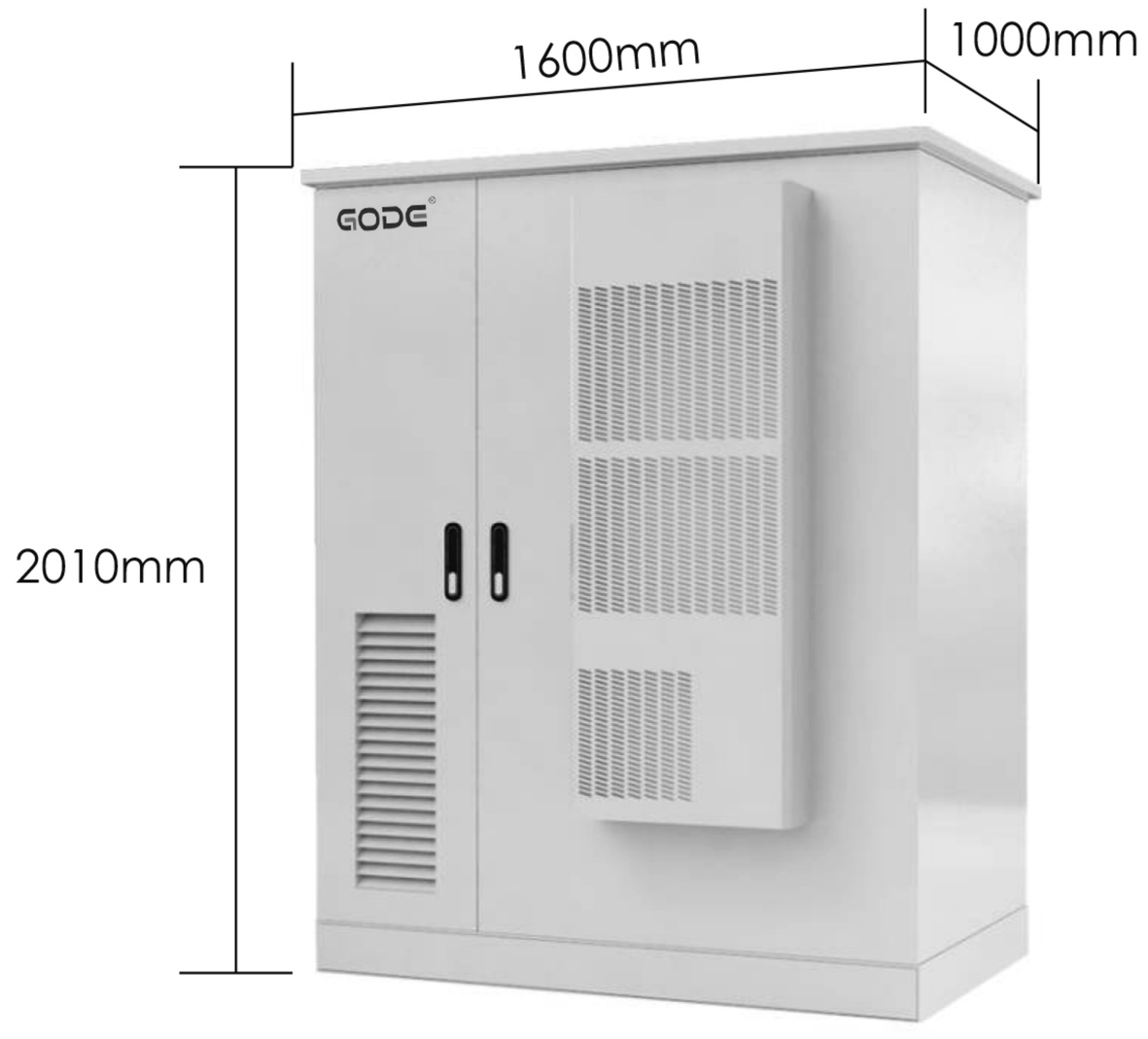
Main Features

- The energy storage cabinet consists of 10 51.2V 100AH battery packs, and the 512V 100AH DC source supplies power to the PCS;
- Three-phase hybrid inverter, 100% unbalanced output per phase, maximum unbalanced output power up to 50% rated power;
- Support parallel and off-grid parallel operation, up to 15 parallel machines;
- High voltage battery, higher efficiency, low calorific value;
- Battery charging and discharging can be set for 6 periods;
- Built-in two 600W air conditioners;
- Built-in WIFI module, check the working status of the device at any time through the mobile APP client;

Technical Data

Model: DQ1907B30K-01
Energy Storage System(ESS)
LiFePO4 Battery: 512V/100AH
Battery Voltage Range: 448~584V
Power Conversion System(PCS)
Rated Power: 30KW
Rated AC Output Voltage: 380V, 50Hz
AC Input Voltage Range: 380V
DC Input Voltage Range: 320~850V
Solar Charger
Max. PV Charge Power: 19.2kW+19.2kW
Max. PV Input Voltage: 850V
MPPT Voltage Range: 200-830V
Energy Management System(EMS)
LCD monitor, RS485, CAN, TCP/IP
Outdoor Three-cabin Cabinet
Size: 2010*1600*1000mm
Air Conditioner, 3000W, 1 sets
Fire Fighting System

Product Size

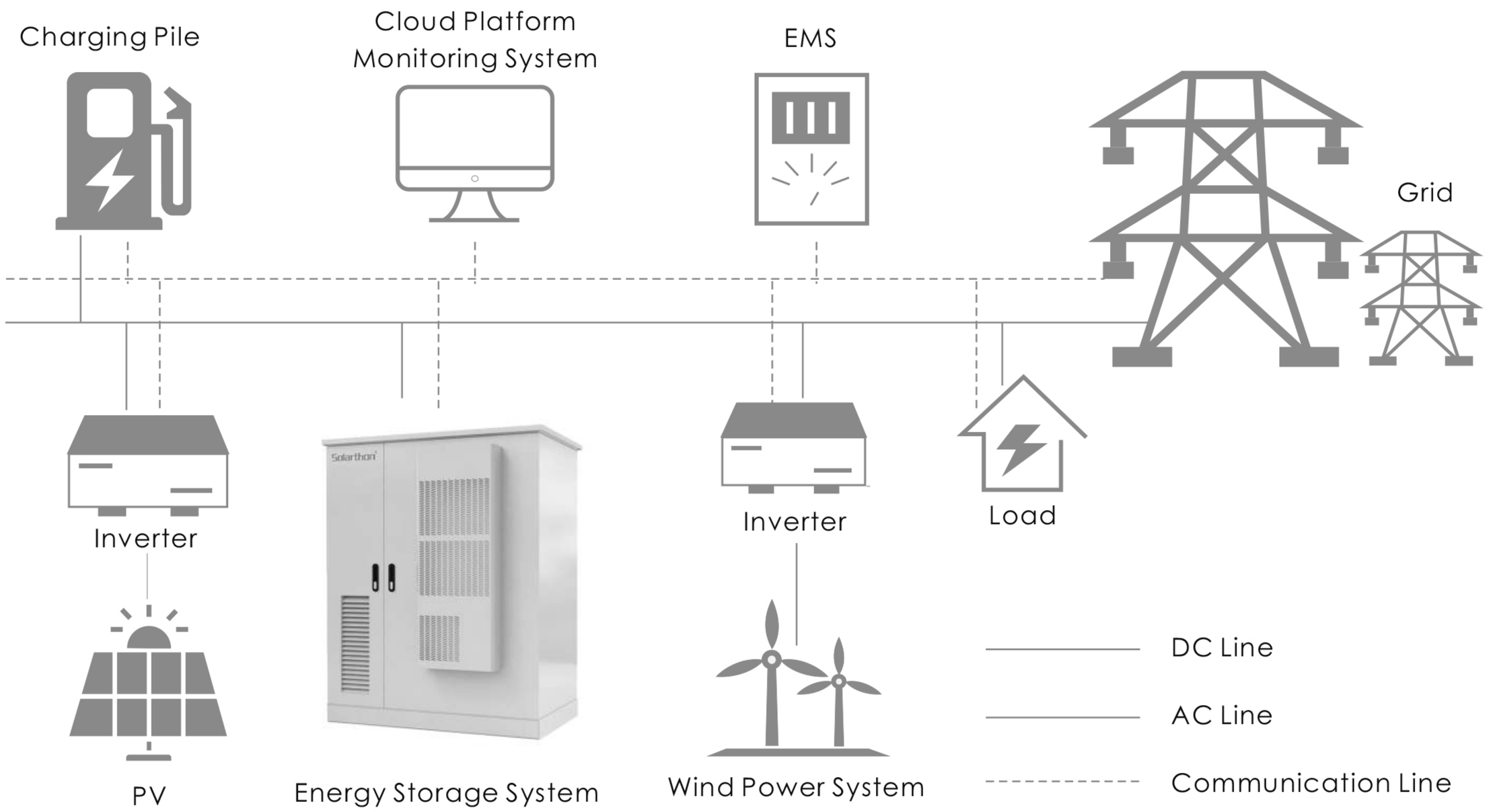


Product Diagram

Front view

Side view

System Topology



Application Scenario Energy Storage Container Energy Storage System

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 Grid

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