

Product Specifications

Power Base Max 4013

Home Energy Storage System

Version V1.0

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1. Introduction

The power base max is the off-grid type of energy storage system which integrated battery system, inverter system and control system. Its application is very convenient, which input can directly connected the power grid, oil machine or photovoltaic panels, output can directly connected to the load. This system can provide a quick solution for photovoltaic energy storage or uninterrupted power supply.

2. Functions

The product adopts the cabinet type, the modular structure design, has the better installation and the transportation convenience. The system is equipped with efficient and accurate battery management system and energy management system, with perfect precharge, predischarge, overcharge, overclasse, overcl

The system is composed of cabinet, battery modules, main control module and split-phase inverter.

The system supports capacity expansion function and supports the parallel use of up to 4 cabinets. It is widely used in household energy storage, off-grid energy storage and other fields. The products have the following characteristics:

- When the grid power is suddenly cut off, stable power supply can be provided independently for users.
- When the power grid does not provide power for a long time, the generator is supported to connect in for power supply and system charging.
- Maximum 13.6kW load.
- It adopts power frequency inverter, with strong carrying capacity, stable and reliable operation and high safety performance.
- The system has three levels of protection function, better guarantee the safety of the product.
- The inverter is integrated with the lithium battery system, which occupies a smaller area and can be installed quickly and easily.
- The frame structure is adopted to realize the arbitrary capacity combination.
- Unique main control box setting can increase product security; can achieve a variety of communication protocols.
- Main control box supports RS485、RS232、CAN communication.
- Supports replacement of old and new lithium battery modules.



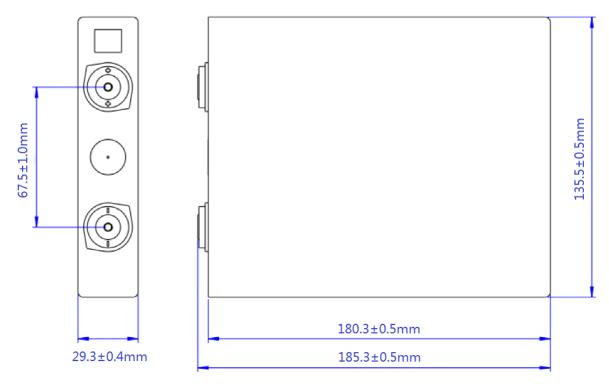






3. Basic Features

3.1. Cell Parameters



No.	Items Parameters		neters
1	Cell Type LiFePO4 Prismatic		Prismatic
2	Nominal Capacity 50Ah		Ah
3	Nominal Voltage	ge 3.2V	
4	Marinum Changa Cumant	Continuous	3C
5	Maximum Charge Current	Peak for 30s	5C
6	Maximum Discharge Current	Continuous	3C
6		Peak for 30s	5C
		Charging	0°C∼55°C
	Temperature Range	Discharging	-20°C-55°C
7		Recommended	15°C∼35°C
		Working	
8	Weight	1395±50g	



3.2. Battery Module Parameters



No.	Items	Parameters
1	Model	ZR-FS4850-1630P1
2	Cell Configuration	16S1P
3	Nominal Capacity	50Ah
4	Nominal Energy	2560Wh
5	Weight (Approx.)	33kg
6	Dimensions (W*D*H)	440*408*133 mm (Handles and connectors are not included)

3.3. Main Control Module Parameters



No.	Items		Parameters
1	Model		ZR-MC100-200E
2	Operation Voltage Range		18V~72V
3	Maximum Operation Current		≤300A
	Communication	RS232	Battery Module Parallel
4		LCD	RS485 , Monitoring Devices
		CAN/RS485	communication interface with PC
5	Weight		12kg±300g
6	Dimensions (W*D*H)		440*502*133 mm (Handles and connectors are not
6			included)



3.4. System Features



Item	Value	
Rated Energy	40kWh	
Battery Module Type	ZR-FS4850-1630P1	
Inverter Module Type	Schneider 865-6848-21 CONEXT XW PRO	
Rated Power	6800W*2(13600W)	
Waveform	Pure sine wave/same as input(bypass mode)	
Nominal Output Voltage RMS	Split phase 120/240 V +/- 3%	
Output Frequency	50Hz/60Hz	
Inverter Efficiency (Peak)	95.1%	
Transfer Time	8ms	
Operating temperature	0°C ~40°C	
AC Input		
AC 1 (grid) input current (selectable limit)	3 – 60 A (60 A default)	
AC 2(generator) input current (selectable limit)	3 – 60 A (60 A default)	
AC input voltage limits	L-L: 156 - 280 V (240 V nominal)	
AC input frequency range	52 – 68 Hz (allowable)	
Mechanical Specifications		
Dimension(W*H*D)	1900mm*1600mm/900mm	
Net weight (Approximate)	900kg	



4. System Structure

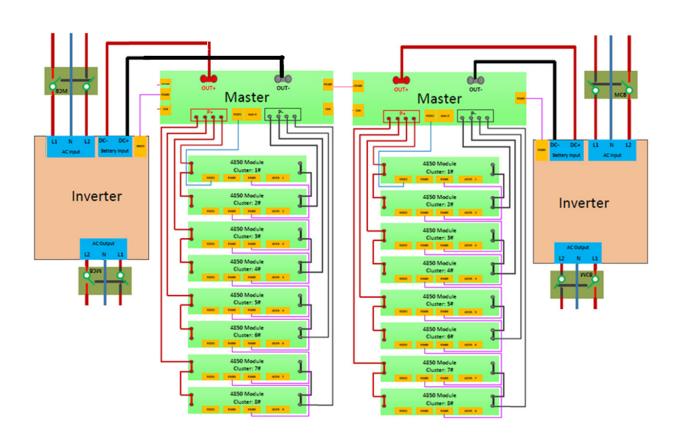
4.1. System Features

The application architecture of the system is shown as follows:



4.2. System Wiring Schematic

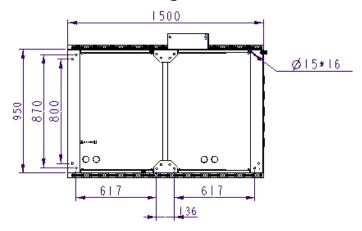
The system wiring schematic of the system is shown as follows:

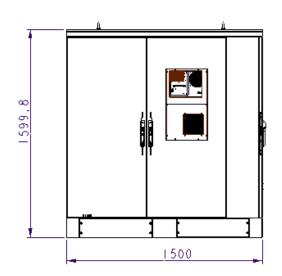


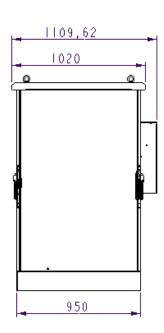


5. Appearance

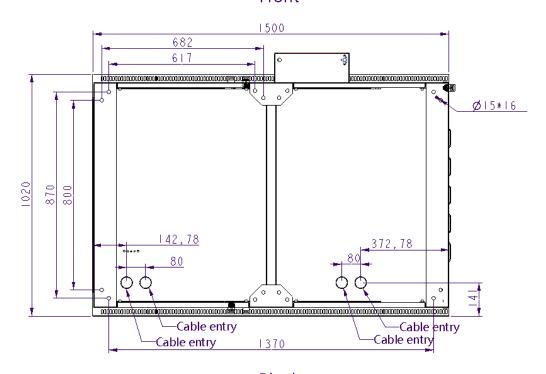
5.1. Dimensional drawing (Unit:mm)







Front



Unit: mm Blank