

RACK MOUNTED HOME ENERGY STORAGE UNIT

HZF-51.2-100-SA



Introduction

The battery system provides power storage for solar energy systems in homes, stores and offices. At the same time, the battery system can optimize the use of electricity and ensure the efficient operation of the entire energy storage system.

Features

- ★ The system uses high-quality lithium iron phosphate power cell, bringing better product performance and reliability
- ★ Each battery module unit is equipped with a separate high-performance BMS system for scientific cell management
- ★ Battery module units can be connected in parallel for expansion
- ★ Supports communication matching of multiple inverters
- ★ The battery energy storage module has a standard 19-inch rack design for easy installation
- ★ Widely used in various application scenarios, such as home, store, and office

Function description

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|---|---|
| 1.SOC Indicate battery capacity status | 7.RESTART SWITCH Sleep and wake-up function |
| 2.ALM Indicate the fault state, indicated by a red light, when there is a fault, it will be on. | 8.BATTERY OUTPUT 51.2V power connector + and - |
| 3.RUN Indicates the operating status of the equipment | 9.PROTECTION SWITCH Circuit breaker |
| 4.ADD Set the battery address | 10.GROUNDING POINT Grounding point |
| 5.CAN CAN communication interface | 11.HANDLE Handle for handling and installation of equipment |
| 6.RS-485 RS-485 communication interface | 12.POWER SWITCH BMS power switch |

Specification

No.	Item	Specification	Remarks
1	Typical capacity	100.0Ah	rated discharge(1)
2	Minimum capacity	98.0Ah	capacity after rated charge(2)
3	Nominal voltage	51.2V	configuration: 16 cells in series voltage of single cell is 3.2V.
4	Voltage at end of discharge	42.0V	
5	Charge voltage	58.4V	At 25±3°C
7	Max continuous charge current	50A	At 25 ± 3°C
8	Max continuous discharge Current	100A	At 25 ± 3°C
9	Operation allowable temperature range	charge 0 ~ 50°C discharge -20 ~ 60°C	operation storage
10	Humidity	10% ~ 85% RH 5% ~ 85% RH	
11	Storage temperature range	0 ~ 50°C	Max. 6 month
12	Weight	≤58kg	
13	Dimension(mm)[W*T*H]	482*420*197	
14	Cycle life	≥3000	@0.2C 80%DOD

(1) Rated discharge : Constant current discharge(0.2CA) till the discharge end voltage (42.0V) at 25±3°C.

(2) Rated charge : After 20A (0.2C) constant current charging to battery voltage 58.4V, turn to constant voltage 58.4V charging, when the charging current is less than 5A (0.05C), stop charging.

