HP-B16 LV Series

Energy Storage Lithium Battery System

HP-B16 series residential low-voltage energy storage batteries adopt an industrial aesthetic design and are equipped with self-developed 314Ah battery cells. Each single module has a capacity of 16.08kWh, supporting parallel connection of up to 20 modules with the total expandable capacity reaching 321.6kWh. Compatible with mainstream inverters, these batteries are applicable to various green and low-carbon scenarios including grid-tied and off-grid systems.



16.08 kWh

Industrial Aesthetics

16.08kWh per unit;
Industrial aesthetic design;
Support for floor installation.

Wide Compatibility

The system matches 20+ brands
of mainstream inverters.

Long-term Reliability

Shoto's self-produced 314Ah;
Over 8,000 cycles;
High Safety & High Reliability.

Easy to Install

Time and labor-saving installation;
Bottom pulley design for easy movement.

High Scalability

Optional expansion functions:
Fire protection, Bluetooth, Wi-Fi module, etc.

Technical Parameters

Model	HP-B16
	
Cell Type	314Ah LFP Prismatic Cell
Nominal Energy[1]	16.08kWh
Available Nominal Energy	14.47kWh
Nominal Voltage	51.2V
Operating Voltage Range	45.0V~56.4V
Continuous Output power	7kW
Peak Output Power	11.25kW, 10s
Max. Charging Current	157A
Max. Discharge Current	157A
Charge and Discharge Efficiency	≥95%
Max. Number of Parallels	20
Overview	
Dimensions [W*H*D][2]	450*870*278(mm) [Bottom pulley+85mm]
Weight[3]	121kg
Communication	CAN/RS485
Installation	Floor
Enclosure Rating	IP65/IP20
Operating Temperature[4]	Charge: 0℃~50℃; Discharge: -15℃~50℃; Recommended: 15℃~35℃
Operating Humidity	5%~95% [Non-Condensing]
Cooling Mode	Natural Cooling
Operating Altitude[5]	≤4000m
Safety/Standards	
Certification	UN38.3
Matching Inverter[6]	Deye、Growatt、Goodwe、Victron、Sofar、SMA 、SRNE、LUX、Solis、Megarevo、Sungrow

*Statement:

1. This information is only a brief description of the performance of the product, and does not mean that it is a guarantee for any model of product;
2. If there is any change in product size and parameters, please refer to the latest information of the company without prior notice.

*Note:

[1] Test environment: 100% DOD, 25°C, 0.2C charge and discharge;
[2] Dimensions of a single cell, excluding brackets and mounting clearances;
[3] Weight tolerance±3%, subject to actual products;
[4] -5°C~10°C, the available power of the system is reduced by 15%;
[5] 20% power reduction above 4000m above sea level;
[6] The inverter brand is updated from time to time.

UN38.3