14-20kWh Floor-Standing Lithium Battery

Model: HJ-HBL48280F/HJ-HBL48314F/HJ-HBL48304F Power: 51.2V/14.366KWh-20KWh

Summary

The floor-standing lithium battery offers multiple models like HJ-HBL48280F(B-48), HJ-HBL48314F(B-49), and HJ-HBL48304F(B-50) with rated energies ranging from 14.366KWh to 20KWh. It features a stable voltage output range of 42 - 58V, high charging and discharging efficiency of 96%, and can adapt to extreme environments. With RS485/CAN communication and button operation, it's easy to monitor and use. Its space-saving design suits limited spaces. Ideal for solar power, industrial and commercial energy, and communication base stations, ensuring stable power supply even in off-grid scenario.

14-20kWh Floor-Standing Lithium Battery (HJ-HBL48280F/HJ-HBL48314F/HJ-HBL48304F)

Product Features

Multi-Capacity Floor-Standing Lithium Battery

Available in capacities from 14.366KWh to 20KWh, allowing selection for different energy storage needs in home, commercial, or industrial applications.

High-Performance Electrically Floor-Standing Lithium Battery

Ensures stable voltage output (42 - 58V), 96% charge/discharge efficiency and can handle 200A max currents to supply reliable power for various electrical devices.

Environmentally Resilient Floor-Standing Lithium Battery

Capable of working within wide temperature (-20°C - 65°C for charging, -20°C - 60°C for discharging) and humidity (5% - 95%) ranges, functioning well in diverse climates and environments.

Long-Lasting Floor-Standing Lithium Battery

With over 4000 cycle life (under specific conditions), reduces replacement frequency, providing a durable and cost-effective energy storage solution over time.

User-Friendly & Connected Floor-Standing Lithium Battery

Equipped with RS485/CAN for communication and a simple button-type operation, enabling easy monitoring and control to enhance user experience.

Space-Saving Floor-Standing Lithium Battery

Despite its power storage capabilities, has well-proportioned dimensions (varying by model), suitable for installation in different spaces without occupying excessive room.

Technical Parameters

Product model	HJ-HBL48280F(B-48)	HJ-HBL48314F(B-49)	HJ-HBL48304F(B-50)
Rated voltage	51.2V	51.2V	51.2V
Rated capacity	280Ah	314AH	400AH
Rated energy	14.366KWh	16.08KWh	20KWh
Output voltage range	42-58V	42-58V	42-58V
Charging voltage	58V	58V	58V
Cut-off voltage	42V	42V	42V
Maximum charging current	200A	200A	200A
Recommended charging current	200A	200A	200A
Maximum discharging current	200A	200A	200A
Efficiency	96%	96%	96%
Dimensions (height x width x depth, mm)	420*240*840mm	490*255*740mm	510*293*970mm
Net weight (kg)	119kg	119kg	162kg

Humidity	**5% to 95% relative humidity**	**5% to 95% relative humidity**	**5% to 95% relative humidity**
Charging temperature	**-20°C to 65°C**	**-20°C to 65°C**	**-20°C to 65°C**
Discharging temperature	**-20°C to 60°C**	**-20°C to 60°C**	**-20°C to 60°C**
Storage temperature	**-10°C to 50°C**	**-10°C to 50°C**	**-10°C to 50°C**
Cycle life	**>4000 times (0.2C, 25°C, 80% discharge depth)**	**>4000 times (0.2C, 25°C, 80% discharge depth)**	**>4000 times (0.2C, 25°C, 80% discharge depth)**
Communication method	**RS485/CAN**	**RS485/CAN**	**RS485/CAN**
Operating mode	**Button type**	**Button type**	**Button type**

Application

This floor-standing lithium-ion battery has unique application scenarios and is available in a variety of models, including the HJ-HBL48280F (B-48), HJ-HBL48314F (B-49), and HJ-HBL48304F (B-50), with energy ratings of 14.366 kWh, 16.08 kWh, and 20 kWh, respectively. Its voltage output range is 42-58 V, with a charge and discharge efficiency of 96%. It can be charged from -20°C to 65°C and discharged from -20°C to 60°C, making it suitable for a variety of extreme environments. Its RS485/CAN communication and push-button operation facilitate remote monitoring and on-site operation. Its unique wall-mounted design reduces floor space by approximately 30%-50%, making it suitable for space-constrained locations such as homes and small businesses. In addition, it is also widely used in scenarios such as solar power generation supporting, industrial and commercial energy management, and communication base stations. It can instantly switch to discharge mode when the power grid is cut off, providing stable power for key equipment. It also performs well in off-grid energy storage scenarios such as power supply for communication base stations in remote areas and island microgrids, and can effectively ensure the stability and continuity of power supply.

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