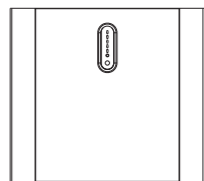


Battery PACK-5.1KWH-16S-100A-F

Datasheet



GSE MBP051KWHF.1

Please read the datasheet carefully before use!

Overview

Battery PACK-5.1KWH-16S-100A-F (hereinafter referred to as the 'product' or 'device') is a rechargeable lithium iron phosphate battery. Together used with the specific inverter, the product is applicable for power supply and storage.

Appearance

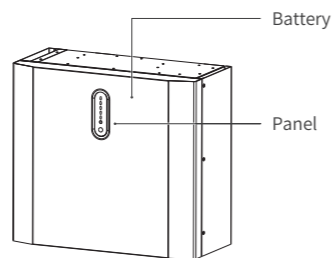


Figure 1

For detailed information about the indicator and button, please refer to the provided user manual.

Note: The illustrations in this datasheet are for reference only and the actual product should prevail.

Technical Data

Electrical	
Battery type	LiFePO4
Rated capacity	100Ah
Rated energy	5.12kWh
Nominal voltage	51.2Vd.c.
Operation	
Operating ambient	0°C ~ +50°C (Charging)
Temperature	-10°C ~ +50°C (Discharging)
Operation voltage range	44.8 - 56.5Vdc
Max. discharge current	80Ad.c.
Max. discharge power	4.096kW
Max. charge power	2.825kW
Physical	
Protection degree	IP65
Protection class	I
Max. AC input	230Va.c., 50/60Hz, Max 32Aa.c.
Max. AC output power	3680W
Max. AC output apparent power	3680VA

Technical Data

BMS	
Modules Connection	Max. 5 batteries in parallel
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement
Communication	CAN and RS-485 compatible
Ventilation type	Passive and Active Cooling

Specifications

Dimensions (W X H X D)	540×530×240mm (See Figure 2 & 3)
Weight	58KG
Certification & Standard	IEC 62619; UL 1973; UN 38.3

Specifications

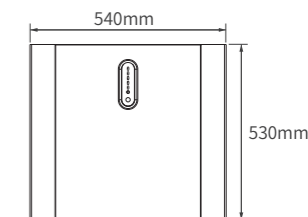


Figure 2

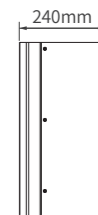


Figure 3

◆◆ Technical Support

E-mail: hdltickets@hdlautomation.com
Website: <https://www.hdlautomation.com>

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◆◆ Safety Precautions



- Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.
- Danger to life due to high voltages of the PV array, battery and electric shock. When exposed to sunlight, the PV array generates dangerous DC voltage which will be present in the DC conductors and the live components of the product. Touching the DC conductors or the live components can lead to lethal electric shocks. If you disconnect the DC connectors from the product under load, an electric arc may occur leading to electric shock and burns.
- Do not touch uninsulated cable ends.
- Do not touch the DC conductors.
- Do not wipe the product with damp cloth.
- Have the product installed and commissioned by qualified people with the appropriate skills only.
- Prior to performing any work on the product, disconnect the product from all voltage sources.

For detailed information, please refer to the provided user manual.

◆◆ Safety Precautions



- The installation and testing for the product must be carried out by HDL Automation Co., Ltd. (hereinafter referred to as HDL) or its appointed service agencies. The electric construction shall comply with local laws and safety regulations.
- HDL will not be responsible for any consequence caused by the inexpert or faulty installation and wiring methods, which are not in accordance with the instructions contained in this datasheet.
- Please contact HDL after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to the warranty.
- Do not touch the product with wet hands.
- Do not damage the product with sharp objects.
- Do not install or operate the product in potentially explosive atmospheres or areas of high humidity.
- Do not mount the product in areas containing highly flammable materials or gases.
- If moisture has penetrated the product (e.g. due to a damaged enclosure), do not install or operate the product.
- Do not move the product when it is already connected with other devices.

For detailed information, please refer to the provided user manual.

◆◆ Safety Precautions



- Risk of injury through lifting or dropping the product. The product is heavy. There is risk of injury if the product is lifted incorrectly or dropped during transport or when attaching to or removing from the wall.
- Lifting and transporting the product must be carried out by more than 2 people.
- To ensure the electrical parameters to match requirements, related measuring equipment are required when the product is being connected or tested. Ensure that the connection and use matched specification to prevent electric arcs or shocks.
- The product is a Lithium Iron Phosphate Battery with certified compliance under the UN Recommendations on Transport of Dangerous Goods, Manual of Tests and Criteria, Part III, subsection 38.3. For the battery cell, chemical materials are stored in a hermetically sealed metal case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials' leakage. However, if the product is exposed to a fire, added mechanical shocks, decomposed, added electric stress by misuse, the gas release vent will be operated. The battery cell case will be breached at the extreme. Hazardous materials may be released. Moreover, if heated strongly by the surrounding fire, acrid or harmful fume may be emitted.

For detailed information, please refer to the provided user manual.

◆◆ Installation

- ⚠ **DANGER:** Prior to performing installation on the product, disconnect the product from all voltage sources.
- For detailed information about installation site and environment,, please refer to the provided user manual.

◆◆ Wiring

- For detailed information, please refer to the provided user manual.

◆◆ Quick Start

- For detailed information, please refer to the provided quick start guide.

◆◆ Packing List

Battery PACK-5.1KWH-16S-100A-F*1
For detailed information about other parts , please referred to the provided user manual.

- ⚠ **Note:** After unpacking, please check if the product and the parte are complete.