



ENERGY
STORAGE



Specification for 16KWh movable energy storage pure electric system

BYLV-B16000

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Product Introduction

16KWh pure battery system is a high-capacity household energy storage product introduced by Benyi New Energy Co., Ltd., which integrates battery and BMS system, and provides a reliable energy supply and storage system for AC measurement. The product is compact in structural design, takes up minimal space, can be matched with inverters and photovoltaic modules to form a photovoltaic consumption and emergency power reserve, and can adapt to most inverters in the market. And multiple computers can be connected in parallel according to customers' requirements, and then there is a display screen system and WIFI remote communication in human-computer interaction, so that customers can control information simply and clearly.

Product advantage

High flexibility

the product is suitable for most inverters and the number of parallel machines is high;

High energy density

compared with ordinary household storage, we have more energy using smaller floor space;

High security

the system has overcurrent and overvoltage protection, anti-reverse connection protection and anti-short circuit protection;

Intelligent system

the product will automatically go to sleep when it runs for a long time, and the wake-up mode is simple;

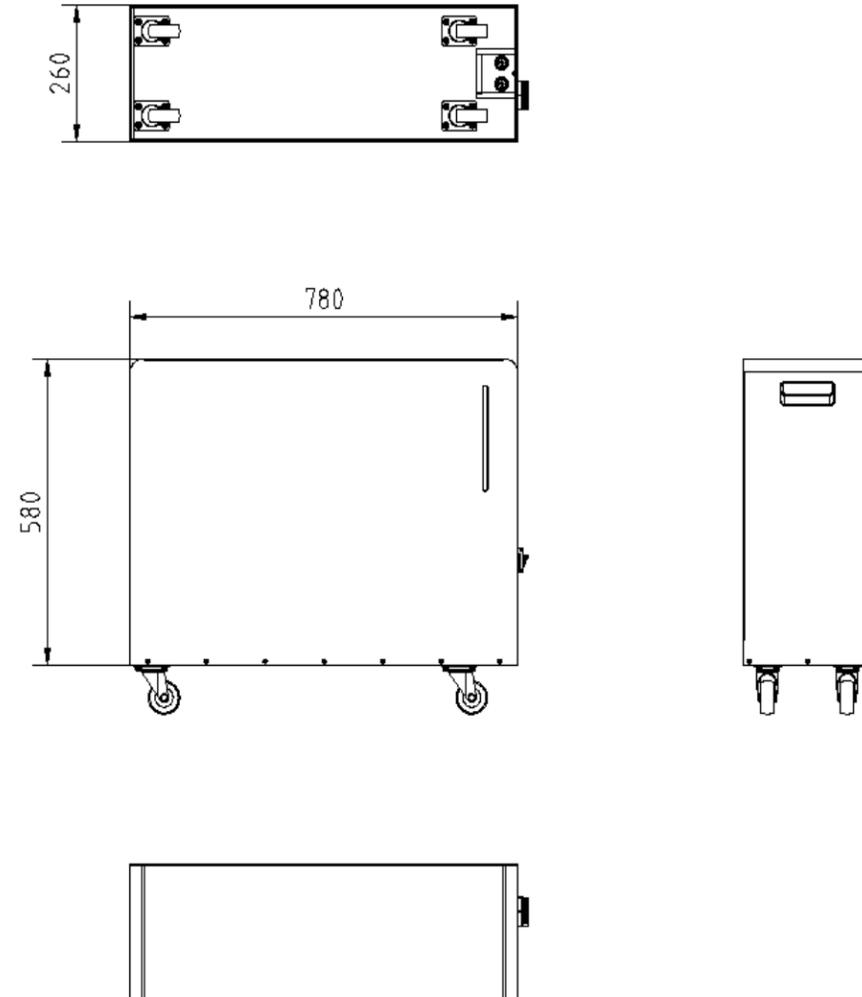
Convenient operation

the system can be equipped with WIFI, Bluetooth, 4G and other remote interactive modes;

Mobility

the system is equipped with two universal wheels (with brakes) and two directional wheels for easy movement;

Product dimension diagram



Product parameter

Product model	BYLV-B16000
Product parameter	
Rated energy	16.07KWh
Rated capacity	314Ah
Rated voltage	51.2V
System internal resistance	< 20mΩ
Operating voltage	44.8V-57.6V
Rated charge and discharge current	100A
Cycles	8000 words(25°C,0.5C, 80% DOD)
Weight	141KG
Measure	780mm*580mm*260mm
DC side efficiency	> 98.5%
External communication mode	RS485, CAN, Bluetooth
System charge-discharge ratio	0.5P
Charging temperature	0-50°C
Discharge temperature	-20-50°C
Operating humidity	< 95% without condensation
The protection grades	IP54
Storage temperature	10-25°C
Cooling mode	Natural heat dissipation
Depth of discharge dod	< 90%
Shipping SOC	30%-50%
Standards & Certifications	UN38.3, IEC62619, CE

Installation Requirements

1. The installation environment should be dry, well-ventilated, free from corrosive substances, free from electromagnetic interference, and with a temperature between -29°C and 50°C.
2. The equipment should be placed on a stable surface and should maintain a certain distance from surrounding objects for heat dissipation.
3. The equipment should have reliable grounding and comply with relevant safety standards.
4. Follow the steps in the product manual or installation manual for installation and wiring.

Maintenance And Care

1. Regularly inspect the operating status of the equipment and perform necessary maintenance, including checking the tightness of terminal connections, the condition of cable equipment connections, and insulation performance. The equipment should be placed on a stable surface and should maintain a certain distance from surrounding objects for heat dissipation.
2. The battery components should be replaced regularly to ensure the normal operation of the equipment.
3. Periodically clean and maintain exhaust vents, such as air conditioning, ensuring cleaning fluids do not enter the equipment.

After-sale Service

1. We provide comprehensive after-sales service, including equipment installation, commissioning, and maintenance. The battery components should be replaced regularly to ensure the normal operation of the equipment.
2. During the equipment warranty period, we will provide free repairs or replacements. After the warranty period, we offer paid repair and maintenance services.
3. After equipment installation, we provide free safety inspections and safety training.

Precautions

1. Before installing the equipment, place it in a dry and well-ventilated environment, avoiding prolonged exposure to humid conditions.
2. Do not place flammable or explosive materials on the equipment.
3. Prohibit illegal operations and modifications on the equipment. If parameter changes are required, please contact the manufacturer or dealer.