
Technical Specification of Portable Energy Storage System (19.2V60Ah1152Wh)

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Model	PESS-1200
Specification	AC220V 1200W
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1. Summary

The PESS-1200 energy storage system is a small power generation device specifically designed to supply electricity to household appliances and mobile devices. It is equipped with a built-in lithium iron phosphate battery, offering strong output capacity and providing both DC and AC output modes to meet the power supply needs of various mobile products. The product supports solar charging and AC charging from the mains. It can be connected to loads such as fans, LED lights, mobile phones, computers, tablets, and TVs. It is suitable for home use, travel, emergency lighting, and outdoor work.

1.1 Scope of Application

This specification defines the rated parameters, electrical specifications, appearance characteristics, safety rules, environmental compatibility, and transportation and storage requirements of the "energy storage system (PESS-1200)".

1.2 Electrical Specifications

Product specification	
Charge	1.DC5521:12V-24V/1-5A 120W power adapter
	2.DC5521: 12V-24V/1-5A car cigarette lighter charging
	3.DC5521: 12V-24V/1-5A photovoltaic solar energy 100W
	4, XT60:21.9V/20A 400W power adapter
	5.TYPE-C(PD100W):Low voltage 20V-5A
Output	1.AC AC 220V or 110V two versions,1200W,50Hz/60Hz, sine wave
	2.DC cigarette lighter, DC5521 plug (x2 interfaces) : 12V-10A/120W total power
	3.USB-1: QC3.0 MAX 18W 12V/1.5A, maximum output power 22.5W
	4.USB-2: QC3.0 MAX 18W 12V/1.5A, maximum output power 22.5W
	5.TYPE-C1: PD/QC3.0 fast charge 5V-3A,9V-2A,12V-1.5A/18W
	6.TYPE-C2: PD fast charge 5V-3A,9V-2A,12V-1.5A,20V-5A/100W
	7.15W wireless charging
	8. Lighting LED light 1W highlights, with level 2 dimming and SOS shining
Weight	Net weight 11.2KG, gross weight 13.3KG
Material	PC+V0 flame retardant
Cell	Lithium iron phosphate 3.2V 15AH cell 6S4P , LFP19.2V60Ah 1152Wh
Dimension	Product size: 280*245*250mm Packaging size: 355x320x345mm

2. Appearance characteristics

2.1 Housing



3 Storage and operating environment

Device storage	Operating environment
<p>Attention:</p> <ol style="list-style-type: none">1) Please store the device in a clean and ventilated place2) Ambient temperature: Battery: $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$3) Humidity: $0 \sim 90\%$4) Avoid any corrosive (acid, alkali) materials5) It is recommended to charge and discharge once a month when not used for a long time	<ol style="list-style-type: none">1) Operating temperature: Battery: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$2) Humidity: $0 \sim 90\%$3) Height: $\leq 5000\text{m}$

4. Notes for Battery Usage

4.1 Prohibition

For avoiding Storage System heat radiating, explosion, below prevent tips should be taken care of:

- a) Prohibition of disassemble or re-assembly;
- b) Prohibition of short circuited Storage System;
- c) Prohibition to use near hot source;
- d) Prohibition of dumping of into water, ocean or getting Storage System wet;
- e) Prohibition of charging near fire or under sunlight;
- f) Charge with specified charge according to charging requirement;
- g) Prohibition of inserting nail into Storage System, hammering or stepping on by foot;
- h) Prohibition of throwing;
- i) Prohibition of charging opposite or over discharging;
- j) Prohibition of charge opposite or opposite connection;