



■ Features

- Built-in UPS function (AC by-pass)
- Pure sine wave output (THD < 3%)
- Bi-directional inverter technology
- Intelligent APP control
- BMS charge and discharge protection mode
- Intelligent temperature control cooling fan
- AC/vehicle/solar charging methods
- Automotive-grade lithium iron phosphate blade battery
- Intelligent digital display screen
- Protections :OVP/UVP/OLP/OCP/OTP/UTP etc
- 3-year warranty

■ Applications

- Outdoor camping
- Automotive rescue
- Outdoor live streaming
- Mobile office
- Emergency power outage
- Street vending power

■ Global Trade Item Identifier

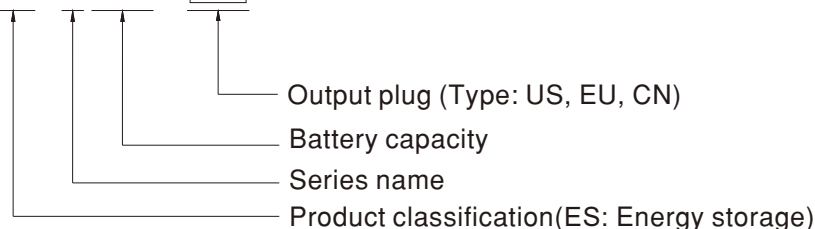
- MW Search: <http://www.meanwell.com.cn/serviceGTIN.aspx>

■ Description

ES-S2200 is a 2400W portable energy storage station supply, with 2240Wh battery capacity, using lithium iron phosphate blade cell, equipped with USB, DC, AC, automotive cigarette lighter and other common power output interfaces. It can provide stable and reliable power support for laptops, drones, photography lights, projectors, electric fans, kettles and cars. With solar panel charging, mains charging, vehicle charging and other charging methods, the use of more flexible and convenient. It is suitable for outdoor camping, outdoor live broadcast, outdoor construction, location shooting, family emergency electricity and other scenes with high power consumption.

■ Model Encoding

ES - S2200 - EU



| Specification | | ES-S2200- <input type="checkbox"/> | | |
|---|--------------------------------|--|--|------------------------------|
| | | <input type="checkbox"/> =CN | <input type="checkbox"/> =EU | <input type="checkbox"/> =US |
| BATTERY | | | | |
| CAPACITY | | 2240Wh | | |
| CELL CHEMISTRY | | LiFePO ₄ | | |
| SINGLE CELL CAPACITY | | 50Ah@3.2V/pcs | | |
| LIFE CYCLE | | 4000+(Post-cycle capacity≥80%) | | |
| BATTERY MANAGEMENT SYSTEM | | OVP/UVP/OLP/OC/OTP/UTP etc | | |
| SOLAR CHARGING SYSTEM | | MPPT Charge controller | | |
| INPUT | | | | |
| AC (2000W max.) | VOLTAGE | 200~240V | 200~240V | 100~120V(max.1500W) |
| | CURRENT | 10A | | 15A |
| | FREQUENCY | 50Hz | 50Hz | 60Hz |
| DC (2*600W max.) | VOLTAGE | 12~59V | | |
| | CURRENT | 14A | | |
| OUTPUT | | | | |
| AC | RATED POWER | 2400W max | 2400W max | 2000W max |
| | VOLTAGE | 230V@50HZ | 230V@50HZ | 120V@60HZ |
| | AC REGULATION | ±10% | | |
| | UPS SWITCHING TIME | 20ms | | |
| | WAVEFORM | Pure sine wave(THD≤3%) | | |
| USB-C1 (100W max.) | DC | PD3.0, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A | | |
| | RIPPLE | 200mV | | |
| | LOAD REGULATION | ±5% | | |
| USB-C2 (45W max.) | DC | PD3.0, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A | | |
| | RIPPLE | 200mV | | |
| | LOAD REGULATION | ±5% | | |
| 2*USB-A (18W max.) | DC | QC3.0, 5V/3A, 9V/2A, 12V/1.5A | | |
| | RIPPLE | 200mV | | |
| | LOAD REGULATION | ±5% | | |
| DC5525/ VEHICLE (120W max.) | DC | 12V/10A | | |
| | RIPPLE | 300mV | | |
| | LOAD REGULATION | ±20% | | |
| TOTAL POWER | | 2400W | | 2000W |
| PEAK POWER | | 4800W/300ms | | 4000W/300ms |
| SAFETY & EMC | | | | |
| SAFETY STANDARDS | | IEC 62368-1:2018;EN 62477-1;IEC 62477-1:2012+AMD1:2016 ;BSMI CNS14843-1;CNS14757-2approved | | |
| EMC EMISSION | Parameter | Standard | Test Level / Note | |
| | Conducted emission | EN55032:2015+A11+A1,EN301 489-1 V2.2.3:2019 | Class A | |
| | Radiated emission | EN55032:2015+A11+A1,EN301 489-1 V2.2.3:2019 | Class A | |
| | Harmonic current | EN301 489-1 V2.2.3:2019,IEC61000-3-2:2014 | Class A | |
| | Voltage flicker | EN301 489-1 V2.2.3:2019,IEC61000-3-3:2013 | Clause 5 | |
| EMC IMMUNITY | Parameter | Standard | Test Level / Note | |
| | ESD | EN 301 489-1 V2.2.3:2019,EN 61000-4-2:2009 | Level 3,8KV air; level2:4KV contact | |
| | RS | EN 301 489-1 V2.2.3:2019,EN 61000-4-3:2006+A1+A2 | Level 2 | |
| | EFT | EN 301 489-1 V2.2.3:2019,EN 61000-4-4: 2012 | Level 2,1KV | |
| | Surge | EN 301 489-1 V2.2.3:2019,EN 61000-4-5: 2006 | Level 3,1KV/Line-Line 2KV/Line-Earth | |
| | Conducted | EN 301 489-1 V2.2.3:2019,EN 61000-4-6: 2009 | Level 2 | |
| | Magnetic Field | EN 61000-4-3:2006+A1+A2,EN 301 489-1 V2.2.3:2019 | Level 2 | |
| | Voltage Dips and Interruptions | EN 301 489-17 V3.2.4:2020,EN 55035:2017+A11 | >0% dip 0.5 periods, 70% dip 25 periods, >0% interruptions 250 periods | |
| OTHERS | | | | |
| DISPLAY | | Mobile APP/TFT display | | |
| STORAGE TEMP. | | -10°C~45°C | | |
| WORKING TEMP. | | Charge:0°C~40°C | Discharge:-10°C~45°C | |
| MATERIAL | | ABS+PC/Metal | | |
| WEIGHT | | 22.5kg | | |
| DIMENSION | | 409*298*310mm | | |
| NOTE | | | | |
| 1.All parameters not specified above are measured at rated load , 25°C of temperature. 2.Load regulation is measured from 0% to 100% rated load. 3.Ripple are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47uF parallel capacitor. 4.When the device is simultaneously performing AC charging and AC discharging, the bypass function will be automatically enabled. ※ Product Liability Disclaimer : For detailed information ,please refer to https://www.meanwell.com/serviceDisclaimer.aspx | | | | |

NOTE

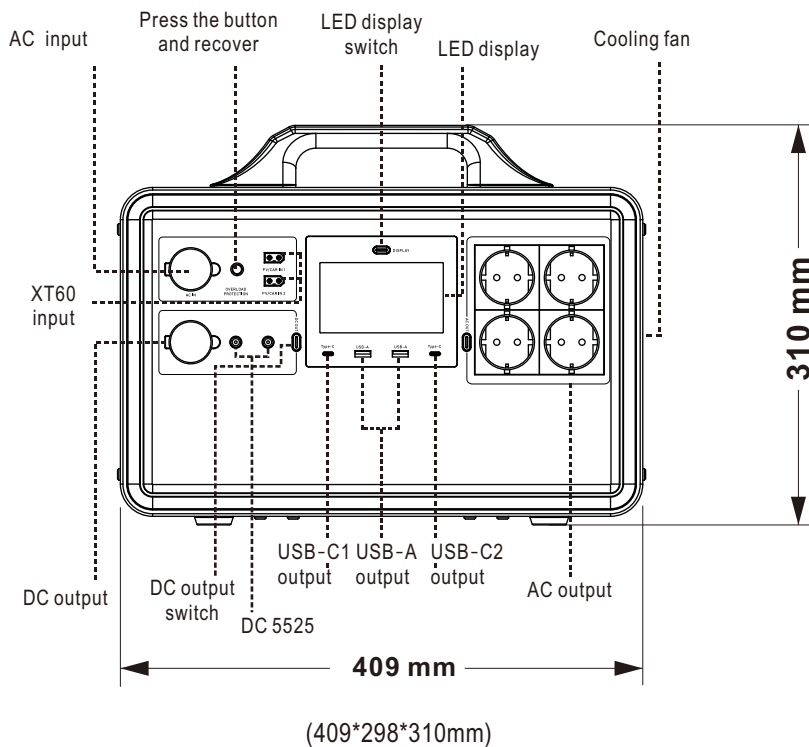
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AC Output Socket

| | | | |
|-----------------|--------------------|----------|----------|
| MODEL NO. | ES-S2200-□ | | |
| Socket type | | | |
| | TYPE-US | TYPE-EU | TYPE-CN |
| | In Stock | In Stock | In Stock |
| Applicable Area | USA, Taiwan Region | EUROPE | CHINA |
| Certificate | | | --- |

Mechanism Dimension and Panel Introduction

(unit: mm, tolerance: ± 1mm)



APP Download and Instructions

Power Zero can connect all your devices via WI-FI to track your energy use and production in real time, dynamically display the status data of the device in real time.

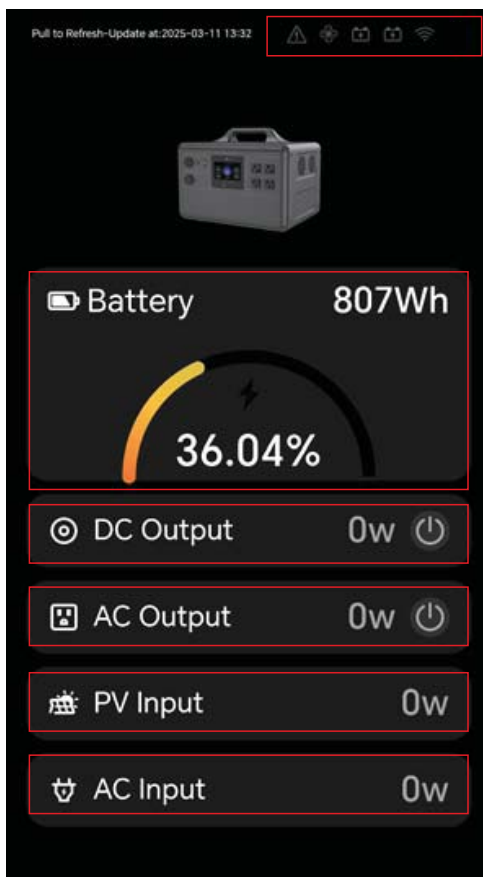
1. Software installed

Scan the QR code and install the opened app on your smartphone.



This software could be operated on mobile phones with Android 6.0 and IOS12.0 or above, refer to the user manual for details

2. Equipment home page



→ Display of product alarm, fan, Wi-Fi status

→ Battery remaining power and percentage

→ DC output power display and ON/OFF control

→ AC output power display and ON/OFF control

→ PV output power display

→ AC input power display

CHARGING MODE



TYPICAL APPLICATIONS



Outdoor Camping



Live Streaming



Power Outage



Drone Filming



Roadside Assistance



Remote Working



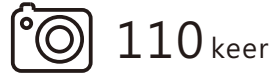
Market Stalls

■ Duration Reference

■ AC Output



LED Camping Lamp(12V/5W)



DSLR Camera(16Wh)



Notebook (60Wh)



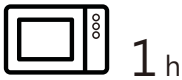
Wall breaking machine(400W)



Rice Cooker(800W)



Consumer Drone(60Wh)



Electric Oven(1500W)



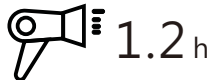
Table Fan(45W)



50 inch TV(110W)



Electric Drill(1000W)



Hair Drier(1200W)



Projector(100W)

■ USB Output



Phone(3095mAh)



Nintendo Game Console(4310mAh)



11 inch Pad(28.65Wh)

■ Car Charger Output






Car Refrigerator(65W)

■ Accessory List

※ Standard accessories

| | ES-S2200-CN | ES-S2200-EU | ES-S2200-US |
|---------------|---|---|--|
| AC power cord |  |  |  |
| Manual |  |  |  |

※ Optional accessories (Need to be ordered separately)

| MW's Order NO. | Item | Description |
|---------------------|---|--|
| PSWG-ES-CAR CHARGER |  | Cigarette Lighter to XT60 Charging Cable |
| PFF5USB3.2C10G5A1M |  | Type-C Fast Charging Cable |
| PSWG-PV-PFSP200 |  | 200W Foldable Solar Panel |