



# 1800W Portable Energy Storage Power ES-S1000 series



## ■ 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

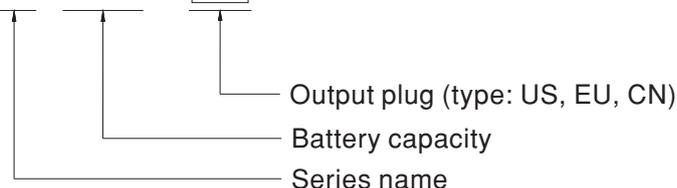
- Outdoor camping
- Automotive rescue
- Outdoor live streaming
- Mobile office
- Emergency power outage
- Street vending power

## ■ Description

ES-S1000 is a 1800W portable energy storage power station, with 1030Wh battery capacity, using lithium iron phosphate blade cell, equipped with USB, DC, AC, automotive cigarette lighter and other common power output interfaces. Its 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 - S1000 - US



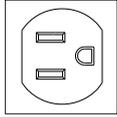
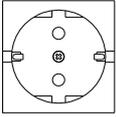
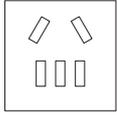


## SPECIFICATION

MODEL		ES-S1000- <input type="checkbox"/>			
		<input type="checkbox"/> =CN	<input type="checkbox"/> =EU	<input type="checkbox"/> =US	
BATTERY	CAPACITY		1030Wh		
	CELL CHEMISTRY		LiFePO4		
	SINGLE CELL CAPACITY		23Ah@3.2V/pcs		
	LIFECYCLE		4000+(Post-cycle capacity ≥80%)		
	BATTERY MANAGEMENT SYSTEM		OVP/UVP/OLP/OCP/OTP/UTP etc		
	SOLAR CHARGING SYSTEM		MPPT Charge controller		
INPUT	AC (1000W max.)	VOLTAGE	200~240V	200~240V	100~120V
		CURRENT	5A Max		10A Max
		FREQUENCY	50Hz	50Hz	60Hz
	DC (800W max.)	VOLTAGE	12~59V		
		CURRENT	15A Max		
	OUTPUT	AC	RATED POWER	1800W 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		2000W		1400W	
PEAK POWER		3600W/300ms		2400W/300ms	
SAFETY & EMC		SAFETY STANDARDS		IEC 62368-1:2018;EN 62477-1;IEC 62477-1:2012+AMD1:2016 approved	
	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℃~45℃		
	WORKING TEMP.		Charge:0℃~40℃ Discharge:-10℃~45℃		
	MATERIAL		ABS+PC/Metal		
	WEIGHT		12.5kg		
	DIMENSION		340*220*258mm		
NOTE	1. All parameters not specified above are measured at rated load , 25℃ 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. ※ Product Liability Disclaimer : For detailed information ,please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>				

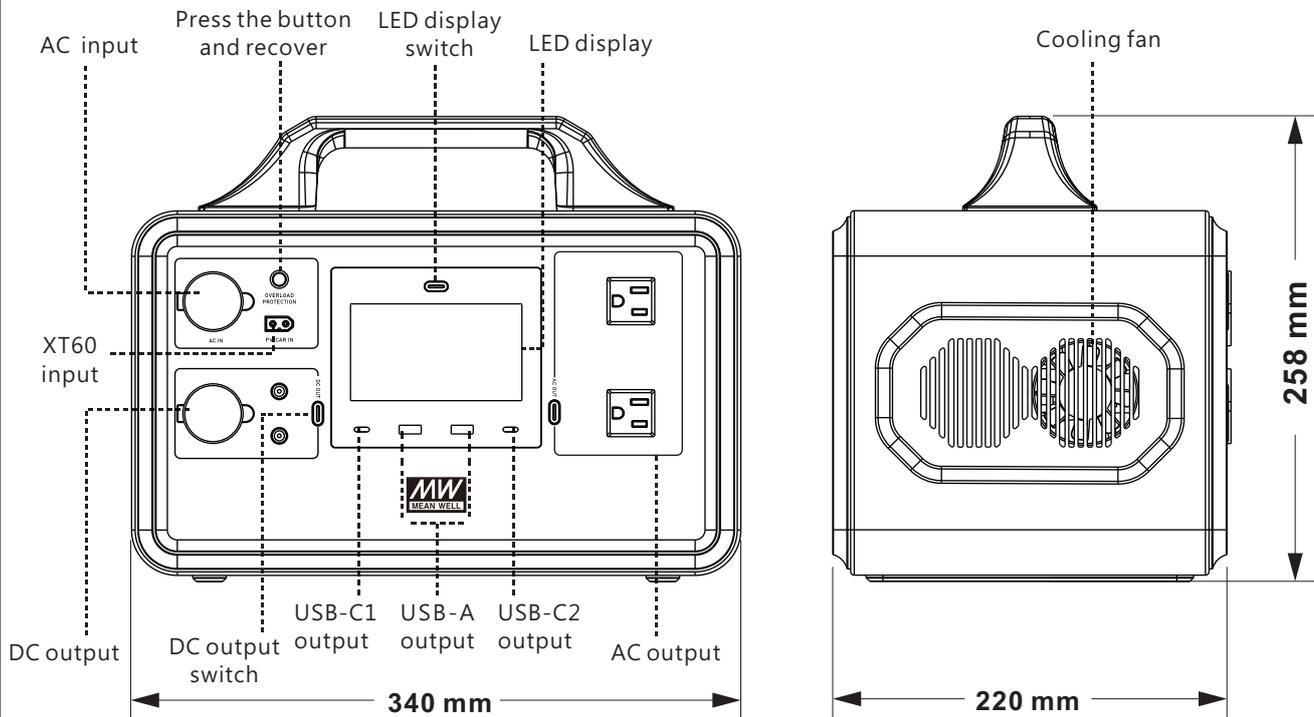


■ AC Output Socket

MODEL NO.	ES-S1000-□		
Socket type			
	TYPE-US	TYPE-EU	TYPE-CN
	In Stock	In Stock	In Stock
Country	USA	EUROPE	CHINA
Certificate			

■ Mechanism Dimension and Panel Introduction

(unit: mm, tolerance: ± 1mm)



## CHARGING MODE



## TYPICAL APPLICATIONS



Outdoor Camping



Power Outage Emergency



Outdoor Photography



Mobile Working



Automotive Rescue



Outdoor Live Streaming



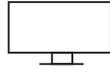
Outdoor Stalls

## Duration Reference



42h

LED Camping Lamp(18W)



6h

50 inch TV(110W)



6h

Refrigerator(110W)



4h

Washing machine(200W)



0.6h

Hair drier(1200W)



0.7h

Air fryer(1000W)



68times

Phone(3300mAh)



10times

Laptop(10000mWh)



5h

Projector(150W)



0.6h

Electric Drill(1200W)



0.5h

Air Conditioner(1500W)



1.2h

Wall breaking machine(800W)

## Accessory List

※ Standard accessories

	ES-S1000-CN	ES-S1000-EU	ES-S1000-US
AC power cord			
Manual			

※ Optional accessories (Need to be ordered separately)

MW's Order NO.	Item
Car Charging cable	
USB33C10G5AIM	