



# CEA Portable Power Station

## User Manual

LFP-EA-SY1-518

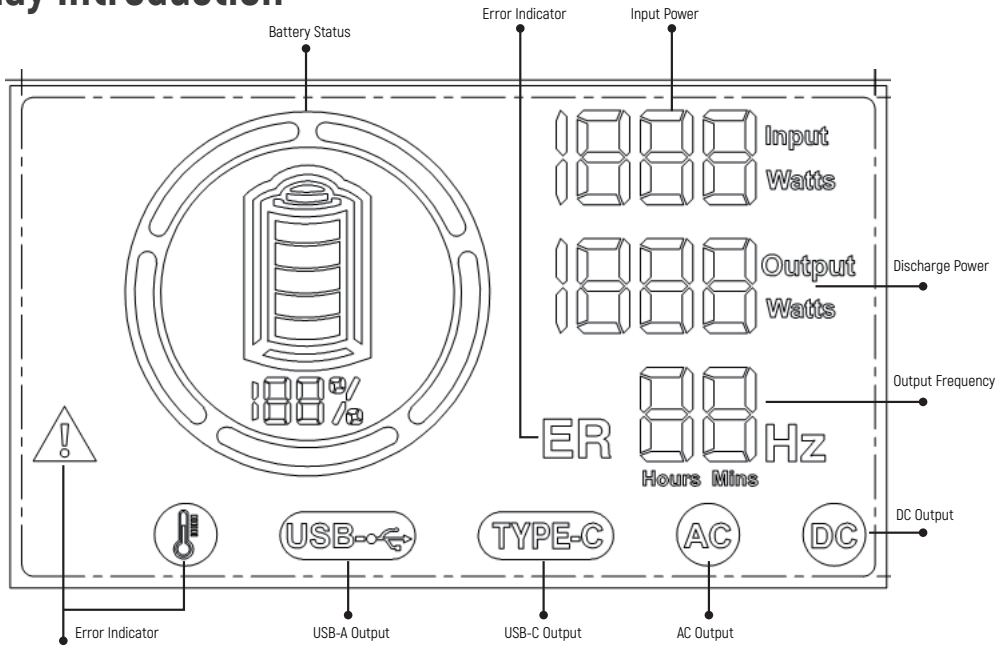


## General Specification:

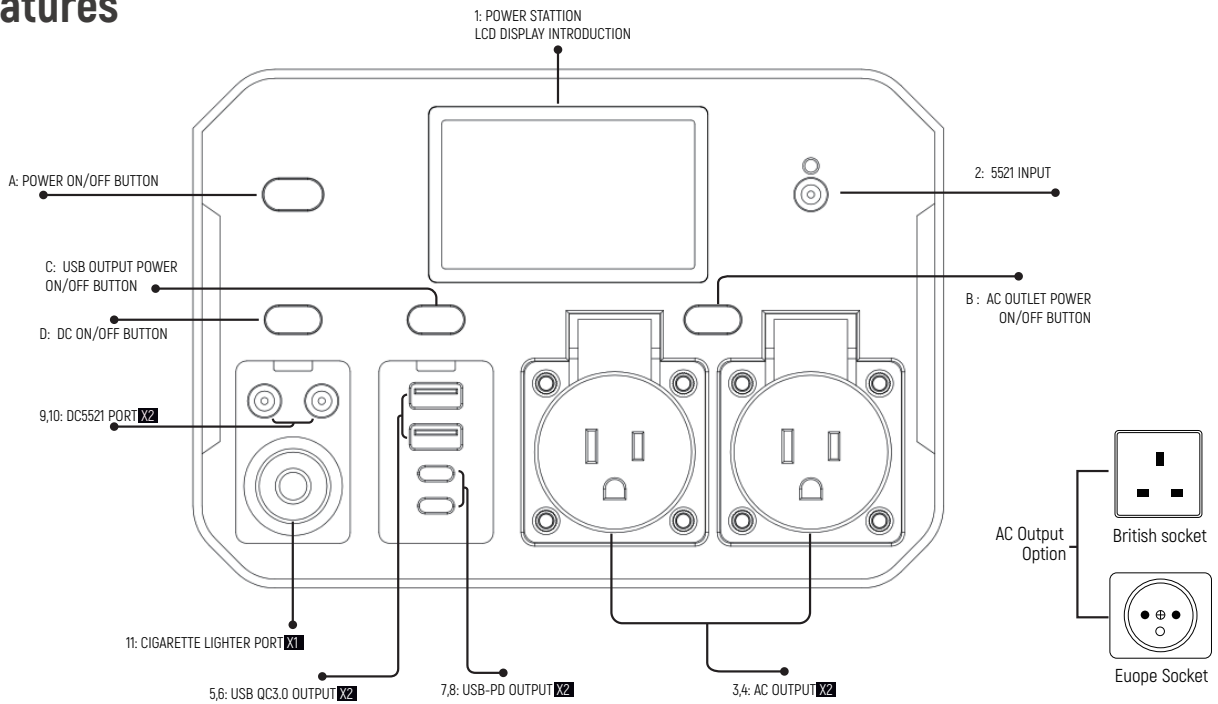
CEA LFP-EA-SY1-518 is a portable power station with the ability to supply max 500W pure sine wave AC power, USB-A , USB-C, wireless charger port. Additionally, power station include 1 flash light and 1 LED work light.

Model number		LFP-EA-SY1 -518
Rated Power		500W
Peak Power		1000W
Battery Capacity		518Wh
Battery Type		LiFePO4
Single Cell	Voltage(V)	3.2
	Capacity(Ah)	27.0
Input	Type-C2 Charger	100W 5V3A 9V3A 12V3A 15V3A 20V5A
	Wall Charger	100W built -in adapter(100-240V)
	Solar Panel	100W(11-23V 5A)
	Car Port	120W(12V 10A)
Recharge time	Type-C2 Charger	5.2H
	Wall Charger	5.2H
	Solar Panel	5.2H
	Car Port	4.3H
Output : AC		2x America socket , 500W pure sine wave 110V, 60Hz
Output : DC		2x 5521 , 12V 10A
		1x cigarette lighter , 12V 10A
Output : USB-A(QC3.0)		2x 18W : 5V3A 9V2A 12V1.5A
Output : Type-C	C1	30W : 5V3A/ 9V3A /12V2.5A/ 15V2A/ 20V1.5A
	C2	100W : 5V3A 9V3A 12V3A 15V3A 20V5A could be used as recharge port
Output : Wireless Charger		1x 10W
LED light		2x 2W : LED Flash light + LED work light
Pass - through charging		Support
Display Screen		LCD
Recharging Temp		-10~40 °C(32° to 104 °F)
Operating Temp		-10~40 °C(32° to 104 °F)
Accessory		AC power cord (length 48cm), carport charger wire (length 131cm)
Size(mm)Length*Width*Height		298*220*213mm
N.W.( lb / kg )		16 lbs (7.5 kg)
Storage/Operating Attitude		6562 ft. (2000m)
Charge Cycles		2000 cycles to 80% capacity
ETL		Yes
FCC		Yes
UN38.3		Yes

# LCD Display Introduction



# Features



# Function Buttons

- |   |                         |                       |
|---|-------------------------|-----------------------|
| A : Power ON/OFF button                                 | 1. LCD Display Screen   | 7. USB-C 1            |
| B : AC Outlet ON/OFF button                             | 2. Anderson PP30 jacket | 8. USB-C 2            |
| C : USB Output Power ON/OFF button                      | 3. AC outlet 1          | 9. 5521 Jacket 1      |
| D : DC Output and Cigarette Lighter Power ON/OFF button | 4. AC outlet 2          | 10. 5521 Jacket 2     |
|   | 5. USB-A 1              | 11. Cigarette lighter |
|   | 6. USB-A 2              |                       |



## Application

CEA power station provides energy to DC electronic devices and AC power apparatuses. We recommend AC power apparatuses rated power is no higher than 500W. Below chart indicates the times devices could be recharged or hours the apparatuses could work.

## WARNINGS

To ensure safe operation and service of the power station, follow these instructions. Failure to observe these warnings can result in severe injury or fire. Read through the product user manual before use.

The AC output of the product is 110V. Do not insert your hand or metal conductors into the AC sockets.

To avoid unknown hazards, do not open the product without permission.

Do NOT disassemble or modify the product, insert foreign object into the product, or immerse it in water or other liquids to avoid leakage, overheating, fire, or explosion.

DO NOT use a product with obvious damage. Do not use damaged wires or plugs to connect to the product which may cause electric shock. Charge with original accessory to avoid fire, explosion or other hazards.

Select a solar panel based on the electrical parameters specified by the manufacturer. Voltages above the specified range may damage the product. If the product smells abnormally or heats up during charging or storage, stop charging immediately and place it in an open place for remote observation. After confirming that it is safe, contact the manufacturer or dealer.

This product and its accessories may contain small parts. Keep the product and its accessories out of reach of children. Children may inadvertently damage this product and its accessories, or swallow small parts, causing suffocation or other hazards. Children or persons with intellectual disability should be accompanied by a guardian to use this product.

This product is equipped with a non-removable built-in battery. Do not replace the battery by yourself to avoid damage to the battery or the product, which may cause fire, explosion or other hazards.

Do Not short-circuit the positive and negative terminals of each output port.

Do NOT use LFP-EA-SY1-518 over its output rating. Overload outputs may result in a risk of fire or injury to persons, even though we have built-in overload protection.

Do NOT use LFP-EA-SY1-518 or AC wall charger, if it is damaged or has been modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.

Do NOT subject to vibration , impacts, or drops. Secure the LFP-EA-SY1-518 during transport.

Do NOT place the unit on its side or upside down while in use or in storage.

Do NOT use the product at an attitude of more than 2000m.

Do NOT use this product during thunderstorms. Thunderstorms may cause product failure or electric shock hazard.

Do NOT drop, squeeze, or puncture the product. Avoid exposing the product to excessive external pressure, which can cause internal short circuit and overheating.

It is prohibited to store or transport the product with keys, metal ornaments, or other metal objects.

Do NOT throw the product into the fire. Otherwise , product may catch fire and explode.

## Certification



## How to Recharge

### CEA recommend 3 ways to get power station recharged

1. Wall charger (100-240V AC). CEA power station used built-in adapter to charge from wall charger. Use power cord attached from one side connect to power station input port, the other side connect to AC wall socket.
2. Charge from solar panel(11-23V). Connect the wire from solar panel to Anderson port on power station, be care to connect positive and negative correctly.
3. Car port charging(DC12V) .

## Operating Instructions

Select the type of outlet required by pressing the USB output ON/OFF Button or the AC Outlet ON/OFF Button. The outlet port will not function until the appropriate button is pressed to activate the port. When activated, the indicator on the button will illuminate green, indicating that the output are active, and the LCD display will turn on and provide details on the charging output. Press the ON/OFF button to shut down the output when not in use. The LCD will automatically shut down when no output are activated.

Press the ON/OFF power button to shut down the output while not in use.

Pass-Through charging.

CEA power station allows it to charge a connected device via DC output and USB output and AC output while recharging .

## Maintenance

In the case of long-term storage (more than 3 months), ensure status of charge is 50% or higher.

Use the product in temperature range of -10~65°C(14° to 149°F) ,beyond this range will shorten its service life.

## Cleaning

Be sure power station is disconnected from all input power sources and output devices. Use a dry clean cloth to wipe the case, remove any debris, dirt or other blockages .

## Storage

If storage for more than 1 month, charge fully before storage and recharge approximately every 3 months to avoid full discharge and possible damage. Storing indoor, temperature -10~65°C(14° to 149°F),keep away from direct sunshine.

Leaving in a vehicle or other confined spaces in extremely hot temperature can lead to decreased service life, overheating, and fire. Extreme cold temperature below specific storage range can also do harm to performance and service life. Keep away from corrosion chemicals and gases.

## Disposal/Recycle

Do not place equipment and its accessories in the trash. Items must be appropriately disposed in according with local regulations.

# Troubleshooting

Symptom	Solution
The product fails to start. The DC, USB, and AC ports have no output.	<ol style="list-style-type: none"><li>1. Remove all electrical equipment, charge the product for 10 minutes, then start it again.</li><li>2. Ensure the product is used in normal temperature range.</li></ol>
The product can be started, but corresponding output ports (DC, USB, AC) have no output.	<ol style="list-style-type: none"><li>1. Check whether the status of charge of the product is too low. If so, charge it in time.</li><li>2. Check whether the power of the electrical equipment is over power station rated power. If so, remove the equipment and start the product again.</li><li>3. Check whether there is a short circuit between output port and electric equipment. Remove the equipment and restart the product.</li><li>4. Connect the equipment to another power supply and check whether it works properly. The product may not be compatible with certain equipment.</li></ol>
The product is shut down accidentally during use.	<p>The product is shut down because the internal protection system starts due to events such as overcharge, overdischarge, high temperature, low temperature, overcurrent, and short circuit.</p> <p>Remove all the electrical equipment, keep the product in normal temperature range, charge it for 10 minutes, start the product again.</p>
Fails to charge.	Check whether the charging electrical parameters are within the charging range of the product.

# Warranty

## Warranty Regulations

During the warranty period, the dealer will provide free repair and parts replacement service for defects in materials and technology damage caused by non-human factors.

The seller shall not be liable for any special, incidental, or consequential losses, or for any loss or damage arising out of the inability to use the product, whether alone or in conjunction with any other equipment or materials, or for any other reason.

**The following conditions are not covered under the warranty:**

1. The product is opened without permission.
2. The product is deformed or damaged obviously by external force.
3. The user does not follow the instructions when using the product.
4. Faults or damage is caused by force majeure(such as lightning strike and flood), human factors(such as misoperation and charging with a non-original charger), or environmental factors(such as high temperature and humidity).
5. The packaging case and accessories of the product are not covered under warranty.

CEA ELECTRIC CO.,LTD

Address : 55th Dingda Road, Fuyang Industrial Zone,  
Yingquan District, Fuyang,Anhui,China. 236000

Tel : +86-558-2623358 Fax : +86-558-2623358

Email : anlen@ceaworld.com

Website : [www.cealite.com](http://www.cealite.com)