



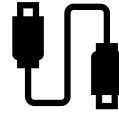
# Portable Hybrid Power Station

- 220V 600W
- 110V 600W
- 220V1500W
- 110V1500W



The integration of solar energy, fuel oil and mains electricity is a perfect power solution

# Product Features



Grid + PV + Fuel  
Variety of Charging Options

Supporting three charging methods: grid, photovoltaic and fuel, it can flexibly respond to various power supply needs whether outdoors or indoors, ensuring that power is always available.



DC + AC Bi-directional Output  
Rich Application Scenarios

Designed for use in a variety of life emergency and emergency rescue scenarios, whether it's a power outage, outdoor adventure, or disaster response, it provides reliable power support and guarantees the continued operation of equipment.



Lithium Iron Phosphate  
Rechargeable Battery  
Safe and Sound

Built-in high-efficiency lithium iron phosphate rechargeable battery with excellent safety and stability, not easy to overheat or malfunction, to ensure the safety of long-term use.



Casters + Trolley  
Easy to Move

Equipped with universal wheels and trolley bar design, it can easily move the device, suitable for scenes that require frequent movement, enhancing the convenience and flexibility of use.

# How it works











This product mainly has a battery to provide power output, in which the inverter provides 220V(110V) AC output and DC output (including DC12V, USB, Type-C, 12V cigarette lighter, etc.).It uses lithium iron phosphate battery, which can be charged by mains charger, photovoltaic and wind energy, Type-C port, and fuel generator. When the product is working, it first uses the battery supply and when the battery energy is reduced to the set value, photovoltaic, wind energy, or diesel generator charging are started.

**Work priority:** photovoltaic (or wind energy) > mains power > oil generator.













# Backup time of different equipment (600W only for reference)

## ➤ Battery Only

 Phone(3110mAh) 26 Charges	 Camara(1500mAh) 52 Charges	 Drone(1500mAh) 52 Charges	 Fan(30W) 16 Hours	 Light Bulb(10W) 48 Hours
 Laptop(60Wh) 8 Charges	 Fridge(60W) 8 Hours	 Rice cooker(300W) 1.6 Hours	 Heater(280W) 1.8 Hours	 Bluetooth Speaker(20W) 24 Hours

## ➤ Power Generator + Battery

 Phone(3110mAh) 104 Charges	 Camara(1500mAh) 208 Charges	 Drone(1500mAh) 208 Charges	 Fan(30W) 64 Hours	 Light Bulb(10W) 192 Hours
 Laptop(60Wh) 32 Charges	 Fridge(60W) 32 Hours	 Rice cooker(300W) 6.4 Hours	 Heater(280W) 7.2 Hours	 Bluetooth Speaker(20W) 96 Hours

# Product parameters



# Main parameters

	EB-S600	EB-S1500
Battery capacity	576Wh	1440Wh
Battery Type	LFP	LFP
Cycle life	≥6000 Cycles	≥6000 Cycles
Input		
DC input :	12~24V 5Amax	12~24V 5Amax
Solar input: :	12-24V, 5A	12-24V, 5A
TYPE-C2 Input:	PD100W	PD100W
Gasoline generator:	550W, 2.2L gasoline (Max: 700W )	550W, 2.2L gasoline (Max: 700W )
Output		
AC output	220V/50Hz (110V/60Hz ) 600W	220V/50Hz(110V/60Hz) 1500W
USB output :	QC3.0 MAX 18W	QC3.0 MAX 18W
TYPE-C1output:	18W	18W
TYPE-C2output:	PD100W	PD100W
DC1/DC2output:	12V, 10A max	12V, 10A max
Weigh	23.5kg	30kg
Size	472.4*265.4*336mm (excluding wheels, handles, poles)	

## Configurable output sockets



American Standard Input: 110/120V 60Hz Output:  
110/120V 60HZ



European standard input: 220-240V 50/60HZ output: 230V  
50HZ



Australian standard input: 220-240V50/60HZ output:  
230V50HZ



British standard input: 220-240V 50/60HZ output: 230V  
50HZ

## Generator

Bore size*stroke	39*33.5mm*mm
Displacement	40cc
Maximum engine power	550W
Fuel tank capacity:	2.2L
Start mode:	Manual/electric/automatic start and stop

When the charging power of the generator is about 300~500W, the power of each liter of oil can be 1000~1200Wh.

# Appearance dimensions

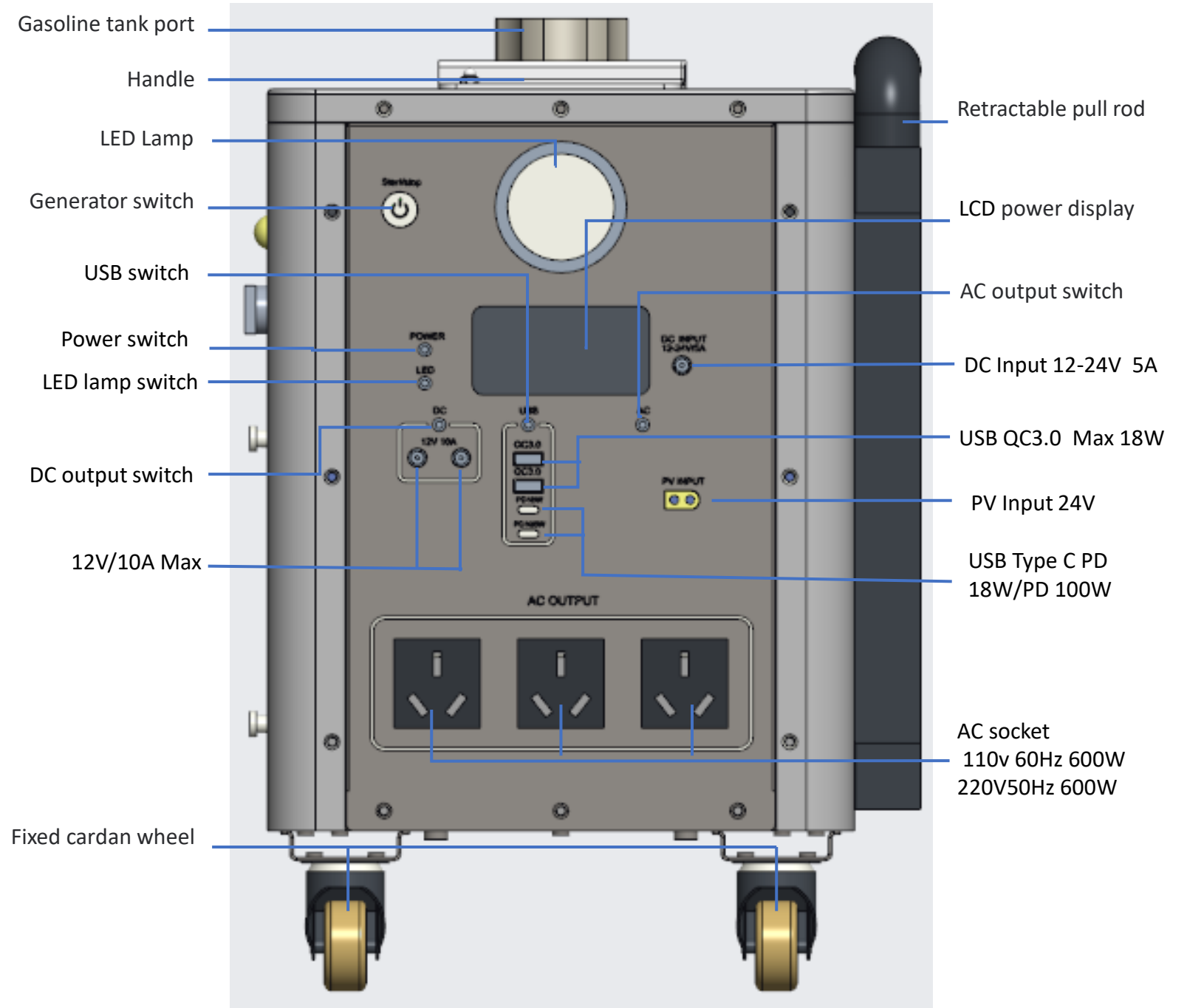
L: 336mm

H: 472.4mm

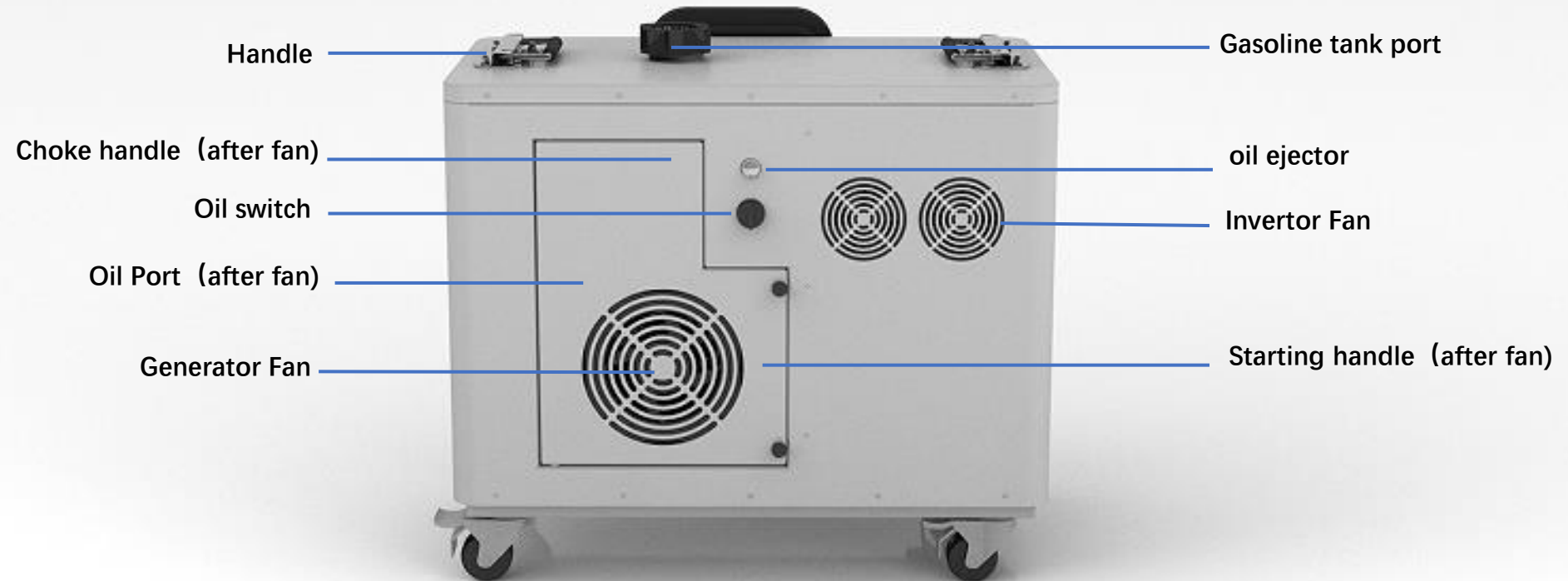
W: 265.4mm



# Panel front features



# Panel side features



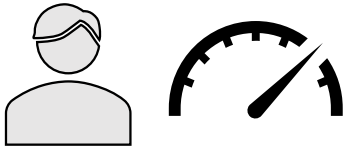
# Side features



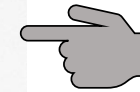
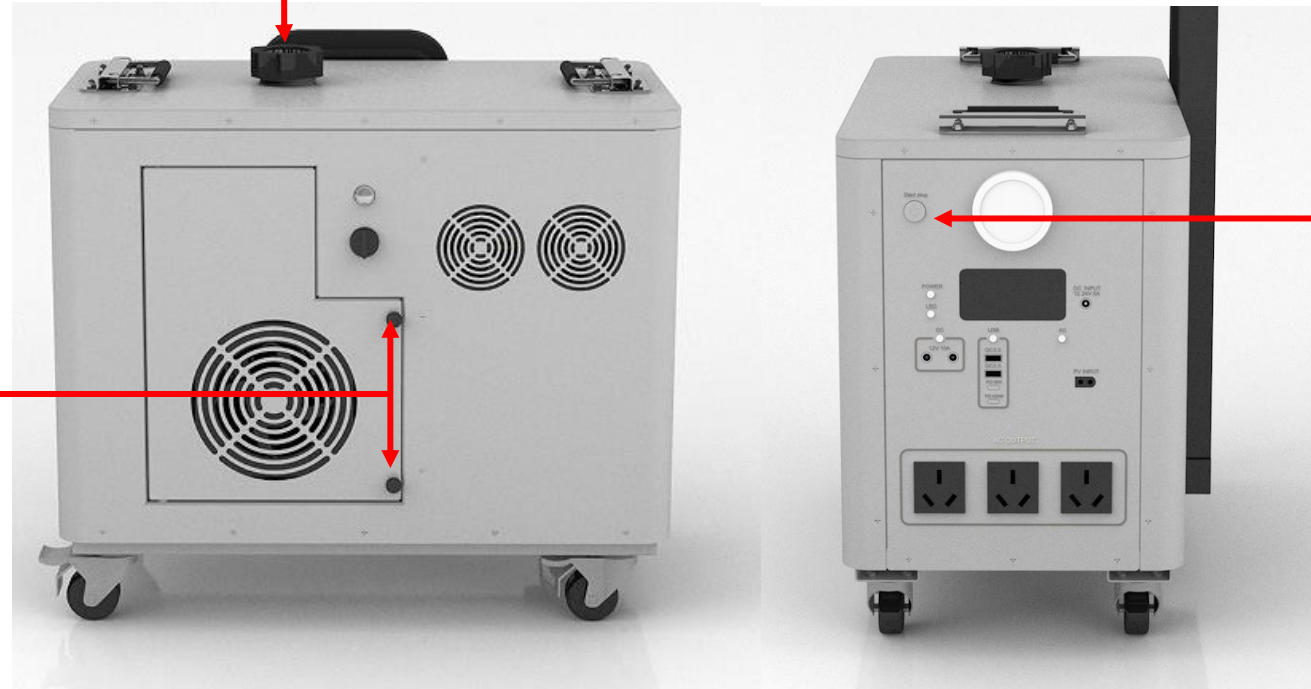
# Operating instructions before use:

1. Check the system installation: Check whether the photovoltaic modules are damaged before installation; Whether the wind turbine is installed firmly; whether there is any bump or deformation on the external surface of the product,
2. Check the electrical connections: whether the positive and negative poles of solar panels and wind turbine cables are connected correctly, and whether the connections of external electrical equipment comply with the voltage level of the all-in-one machine,
3. Check the gasoline engine: Before powering on, check that the gasoline in the tank is within the allowable gasoline volume and the gasoline is within the scale range of engine; whether the equipment is clean and there is no gasoline spillage,
4. Check the environment: Before starting the gasoline machine, be sure to keep the equipment away from sparks or high temperature areas.

(1) Open the tank cap and check that the gasoline amount is within the allowable range



(2) Open the fan screen and check whether the gasoline is within the scale range of engine.



(3) Press the "generator switch" to check whether the product is working properly.

# Instructions for Starting/Stopping the gasoline Engine

## ◆ Start engine (need open the fan door):

- ① First, rotate the air switch on the gasoline tank cap to the “ON” position to open the air inlet;
- ② Rotate the gasoline switch to the “ON” position to open the gasoline line to the carburetor.
- ③ Set the choke lever to the “CHOKE” position on the right side. (This is for winter starting.)
- ④ One-click start: Press the “Generator Switch” for 3 seconds to start the engine.
- ⑤ Manual start: Start the generator by pulling the generator's pull cord.

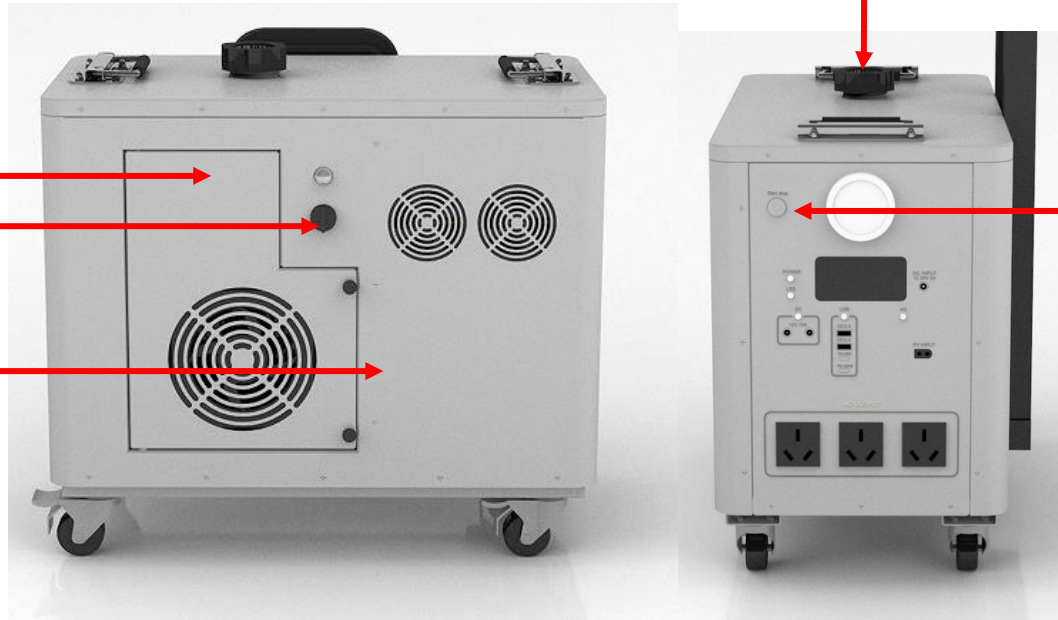
Note: The engine cannot be started using these two methods when the battery pack is fully charged or the gasoline level is too low.

## ◆ Stop engine:

- ① One-click stop: Press the “Generator Switch” to stop the gasoline generator, then rotate the gasoline switch to the “OFF” position to close the gasoline supply to the carburetor, and turn the air switch to the “CLOSE” position.
- ② Automatic stop: The generator automatically shuts down when the battery pack is fully charged.

- (3) Set the choke lever (Behind the door) to the 'CHOKE' position on the right side.
- (2) Rotate the fuel switch of the gasoline engine to the 'ON' position.

(5) Manual Start.



(1) Rotate the gasoline tank cap to the 'OPEN' position.

(4) Press the 'Generator Switch' to start and stop the product.

# Output Start/Stop Operation Instructions:

Push Button Switch	<p>Main Switch: The main switch controls all functions of the product (excluding the lighting function). When the switch is pressed, the power level and total output power display will light up.</p>
	<p>AC Button Switch: It controls the inverter AC output. When the switch is turned on, the AC output function is normal; when turned off, the output is disconnected.</p>
	<ol style="list-style-type: none"><li>1. Press and hold the main switch for 2 seconds to turn on the system; press and hold for another 2 seconds to turn off the entire output.</li><li>2. Press and hold the LED light switch for 2 seconds to turn the LED light on or off; a single press after that activates the SOS function.</li><li>3. Press and hold the DC switch for 2 seconds to turn on or off the DC5521 and the car cigarette lighter output.</li><li>4. Press and hold the USB switch for 2 seconds to turn on or off the USB1, USB2, and TYPE-C1 outputs.</li><li>5. Press and hold the AC switch for 2 seconds to turn on or off the inverter output.</li></ol>
Lighting LED	<p>Lighting light: Press and hold for 2 seconds to turn the LED light on or off.</p>
	<p>Single click to switch light modes: High brightness - Low brightness - Flashing - High brightness.</p>

# Instructions for adding gasoline and engine operation

## ➤ Add gasoline:

- ① After the product is no longer in use, check the gasoline tank and its lines, and other components for any damage to ensure they can be used normally.
- ② First, turn the gasoline switch to the “OFF” position,
- ③ Open the gasoline tank cap and fill with gasoline using standard refueling methods, making sure not to exceed the specified maximum fill level,
- ④ Then tighten the gasoline tank cap and turn the gasoline switch to the “CLOSE” position.
- ⑤ After refueling, please press the priming bulb 5-6 times.

## ➤ Add or change the engine oil:

- ① Remove the screws around the **engine oil** tank fan and gently take off the fan cover (be careful not to damage the connecting wires);
- ② Unscrew the **engine oil** tank cover and remove the dipstick,
- ③ Tilt the machine, open the drain plug, and drain the used **engine oil**, then close the drain plug,
- ④ Add the appropriate amount of **engine oil** ;
- ⑤ Reinstall the dipstick, tighten the **engine oil** tank cap, and put the fan cover back on.

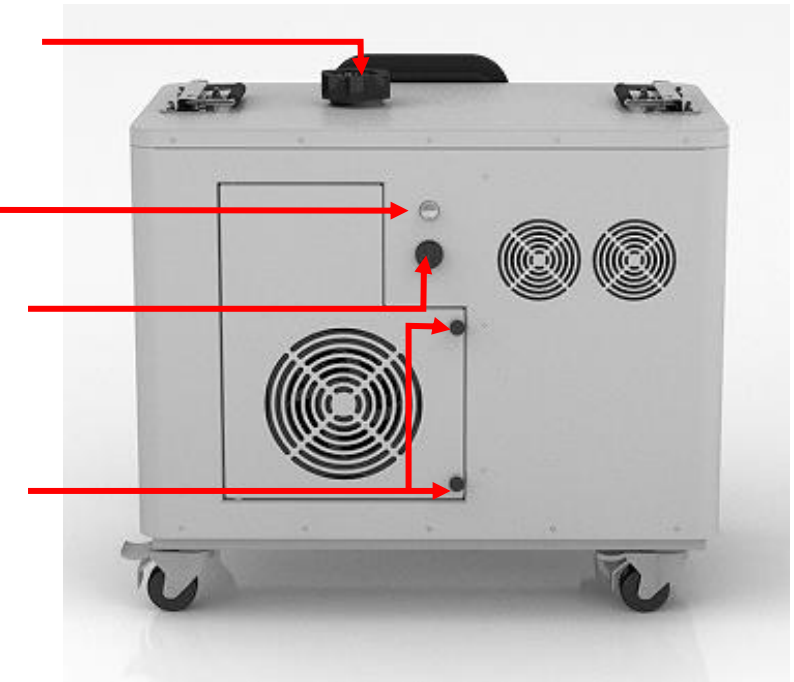
- **Turn on the machine to check that the equipment is functioning properly.**

(2) Switch on the fuel tank cap and add gasoline.

(4) After refueling, press the priming bulb.

(1) Rotate the gasoline engine switch to the 'OFF' position.

(3) Unscrew the screws, open the gasoline tank cover, and add engine oil.



# Safety precautions:

- ① The positive and negative terminals of the solar panel and wind turbine connection cables must not be connected incorrectly,
- ② Regularly clean the generator's filters, spark plugs, and the product's surface,
- ③ Before starting the generator, it is essential to check the engine gasoline level. Starting the generator with insufficient or excessive gasoline is strictly prohibited,
- ④ Do not add gasoline to the tank while the engine is running or when it is hot,
- ⑤ When refueling, do not fill above the filter screen; otherwise, there is a risk of overflow due to heating and expansion of the fuel,
- ⑥ Always use a fuel filter when adding gasoline,
- ⑦ It is recommended to change the engine gasoline every 100 hours of use.
- ⑧ Be sure to be careful not to allow dust, water, or other impurities to enter the gasoline,
- ⑨ Before starting the engine, please ensure that any spilled gasoline is completely wiped clean,
- ⑩ Keep away from sparks when starting,
- ⑪ After the engine is running, the muffler will become very hot. Be careful not to allow your skin or clothing to touch it until the engine and muffler have cooled down.

# Transportation and Storage:

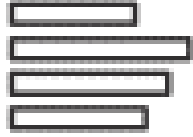
- ① When transporting equipment, close all inputs and outputs,
- ② At the same time, turn off the gasoline switch of the generator and place the equipment in a location where it will not overflow with gasoline,
- ③ When the generator is not in use for an extended period, all fuel should be drained from the fuel tank, valves, and carburetor. The equipment should be cleaned of any dirt and stored in a dry and well-ventilated place. The equipment must be kept balanced and properly stored.

# Maintenance

Regular maintenance is an important condition for keeping the machine in optimal working condition.

Items	Inspection content	Pre-operation inspection (daily)	Initial 1 month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every 12 months or 300 hours
<b>Spark plug</b>	Inspect the ignition condition, adjust the spark gap, clean it if necessary, and replace it if needed."			X		
<b>Engine gasoline</b>	Check the oil level	X				
	Change gasoline		X		X	
<b>Gasoline/fuel filter</b>	Clean				X	
<b>Air filter</b>	Clean, and replace if necessary			X		
<b>Gasoline filter</b>	Clean, and replace if necessary				X	
<b>Valve cleaning</b>	Inspect and adjust					X
<b>Gasoline pipe</b>	Check if the oil pipe is damaged or broken, and replace if necessary	X				
<b>Exhaust system</b>	Check for any air leaks; please tighten it or replace the gasket if necessary	X				
	Check the muffler screen; clean or replace it if necessary					X
<b>Carburetor</b>	Check the operation of the throttle plate	X				
<b>Cooling system</b>	Check if the fan is damaged					X
<b>Starting system</b>	Check the manual pull starter and its operation	X				
<b>Idle speed</b>	Check and adjust the engine idle speed					X
<b>Fasteners and connectors</b>	Check all accessories and fastening parts, and adjust them as needed				X	
<b>Generator</b>	Check the voltage indicator light	X				

# Services



## Monitoring

Our device can automatically charge or discharge based on real-time battery levels (charging starts at  $\leq 10\%$  and stops at  $\geq 90\%$ ). Whether you're camping, traveling, or dealing with emergencies, this feature optimizes battery life, reduces energy waste, and ensures reliable, worry-free power when you need it most. With its intelligent auto-start/stop function, you can maintain efficiency and ample power—convenience, sustainability, and peace of mind all in one portable product.



## One year warranty

Enjoy peace of mind knowing that your device is covered for repair or replacement due to manufacturing defects. Don't let unexpected issues slow you down—our warranty service ensures you can quickly return to normal use. Gain the reliability and support you deserve.



## 24/7 technical support

Get the help you need anytime, anywhere with our 24/7 technical support! Whether it's troubleshooting, device setup, or expert advice, our professional team is always ready to assist you.

**Contact us** [Website: www.ebulent.com.cn](http://www.ebulent.com.cn)  
Whatsapp/Phone: +86-18688993320  
Email: [Ankai.wang@ebulent.com.cn](mailto:Ankai.wang@ebulent.com.cn)

