

Global Sources ONW-HW400, 800, 1200W Lithium Portable Solar Power Station



# Global Sources ONW-HW400, 800, 1200W Lithium Portable Solar Power Station User Manual

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Global Sources ONW-HW400, 800, 1200W Lithium Portable Solar Power Station



## Specifications

Model	Battery	Output power	Max load	Input voltage
ONW-HW400W	12V 15AH(20000BWH)	400W	800W	AC input: AC 160V~260V 50/60Hz; Solar/wind energy input: DC 13-36V input; vehicle input: 12V, PV Max: 120W
ONW-HW800W	24V 15AH(400WH)	800W	1600W	AC input: AC 160V~260V 50/60Hz; Solar/wind energy input: DC 13-36V input; vehicle input: 12V, PV Max: 120W
ONW-HW1200W	24V 30AH(780WH)	1200W	2400W	AC input: AC 160V~260V 50/60Hz; Solar/wind energy input: DC 13-36V input; vehicle input: 12V, PV Max: 120W

## Product Usage Instructions

- When normal power is off, check the status of the battery power supply.
- Plug the AC input power cable into the AC INPUT port before use.
- Connect the load and turn on the AC output switch for normal use.
- When normal power is working, it will supply power to the load and charge the product. Turn off all switches during standby to minimize battery consumption. Only turn them on when needed.
- Use a 18V, 50W~120W solar panel for charging. Pay attention to connecting the positive and negative poles correctly.
- Refer to the table above for detailed technical data on different models.
- The UPS is powered by mains when available and switches to an internal battery during power outages.
- The backup time varies based on the load and model. Refer to the user manual for specific details.

## FAQ

- **Q:** How do I know when to replace the battery?
- **A:** The battery needs replacement when it no longer holds a charge or provides sufficient backup time. Contact customer support for assistance.
- **Q:** Can I use a different solar panel than the recommended specifications?
- **A:** It is recommended to use a solar panel within the specified voltage and wattage range for optimal performance and safety.

## Power everywhere, wonderful life

### ONW-HW Series Li-battery portable power supply

It is a pure sine wave UPS backup power product that features with lightweight, portable, beautiful design, easy-to-use, and built-in large-capacity lithium battery. It adopts advanced built-in lithium battery technology and has strong output energy. It provides two different voltage modes: AC output and DC output, which can meet the power supply for different electronic products. This product can be used not only as an online UPS power supply but also as an outdoor emergency backup power supply. It can provide a power supply for most mobile electronic products.



- There is a built-in high-capacity long-life lithium battery pack which is rated 12V 26-90AH /288~990Wh to provide continuous power. After normal power is off, this UPS can provide continuous power for common home/office desktop computers for 5-20 hours. Meanwhile, it also can be used as an indoor or outdoor emergency power supply.
- Its 220VAC/12VDC/5VDC output is suitable for various devices, like mobile phones, tablet PC, laptops, small printers, various lamps, small fish tank heaters, photographic equipment, electric balance car, medical equipment, etc. Compared with traditional UPS, this product is a must-have product for home, travel, outdoor work, camping, picnic, and mountaineering adventures.



**mountaineering adventure**



**camping**



**Commercial & Office**



**Mobile Office**



**Outdoor construction**



**Outdoor camping**



**Environmental monitoring**



**Outdoor communication**



**Filming**



**Fire emergency**





**Power detection**



**Troop drill**



**Outdoor office**



**Outdoor survey**

## Function introduction and instructions

### Product overview(front side)



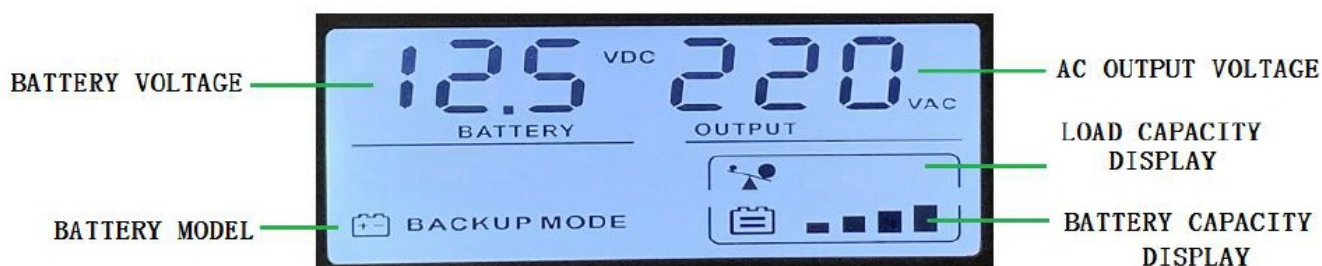
When using the DC output function, please turn on the corresponding DC switch, and then the DC output indicator will light up. At this time, DC 12V and 5V output can be used. When not in use, please turn off the switch to avoid self-consumption of the power. The LCD display can show the power level:0~100%. When the battery power is low, please charge the power station in time for continued use. When using the LED torch, please turn on the corresponding LED power switch.

### LCD function display

Normal power charging status



When Normal power Off, The status of battery power supply



### Product overview(Back side)



- As the pictures show, please plug the AC input power cable into the AC INPUT port before using it. Then connect the load, and turn on the AC output switch for normal use. When normal power is working, the normal power will work for the load. At the same time, the product is also charged. When the normal power is off, it will automatically switch to the internal battery to supply power for the load.
- Please note: When the unit is connected to a load, the operating power of the load should not exceed the maximum output power of the unit. For example: the maximum output power of the unit is 600W, if the operating power of the load exceeds 600W, the power supply will enter the protection state and shut down the output. Only when the excess load is reduced and the unit is restarted, the output power can resume its normal

power output. If a heavy load is connected to the unit, it may cause the AC fuse to blow off. Please replace the blown fuse with an 8A 250V fuse and verify the connected total load doesn't exceed the maximum rated power of the unit before attempting to use the unit again.

- When bringing it for outdoor use, please turn off all switches at standby times, in order to minimize the automatic consumption of the battery, only and turn them on when you need to use this UPS.

Solar charging description: As the picture shows "Solar charging input", and the suitable solar panel specification is 18V, 50W~120W. When connecting the solar panel, pay more attention to the positive pole and negative poles, and they should correspondingly connect the positive and negative poles (internal positive and external negative), otherwise it cannot be charged. e-USB intelligent computer data management and remote monitoring functions:

1. Install WinUPSmate communication management software on the computer
2. The computer pops up a friendly interface, Pls connect the data line between the computer and the UPS
3. The interface will show that the UPS has been connected normally and you can enter the intelligent data storage management
4. Install the APP app by scanning the QR code on the mobile phone interface
5. When the computer is connected to the Internet, the mobile phone can automatically

## **Technical data**

Model	ONW-HW400W	ONW-HW800W	ONW-HW1200W
Battery	12V 15Ah(200WH)	24V 15AH(400WH)	24V30AH(780WH)
Output power	400W	800W	1200w
Max load	800W	1600W	2400w
Input voltage	AC input: AC 160V~260V 50/60Hz;Solar /wind energy input: DC 13-36V input; vehicle input: 12V , PV Max :120w		
Solar Charger	120W/18V	240W/36V	
DC Charger	20A(300W)	15A (450W)	
Output voltage	220V 50Hz / 110V 60Hz		
DC output	Three 12V/4A; two USB5V/2.1A; one QC3.0; one TYPE-C; one (PD3.0 fast charge 5V/3 A, 9V/2A, 12V/1.5A);		
Smart communication	1 universal USB for computer data monitoring (mobile Internet monitoring function,		
LED Light	1W		
Input Wave	Pure sine wave		
Transfer time	≤8ms		
Overload	If overload, the AC output is disconnected, and the indicator light is red, after disconnecting the load, Then restart the UPS, then recover working normally		
Short circuit	when short circuit, the AC output is disconnected, disconnect the load, after disconnect		
Lithium battery	More than 2000 times for the cycle life		
Net weight	3.95kg	5.9kg	10.8kg
Gross weight	4.2kg	6.2kg	11.2kg
Product Size	266*160*168mm	380*160*168mm	410*160*168mm
Packing Size	380*230*225mm	468*230*225mm	480*230*260mm
Color	Silver/Gray/black (customized)		

## Working principle





- When the mains power is working, it will supply power to this UPS and charge this UPS at the same time.



- When sudden power is off, The UPS will be automatically switched to the internal lithium battery to supply power to the equipment in an instant. The computers will continue to work without shutting down!

### Backup time

Equipment(Load)	ONW-HW400W	ONW-HW800W	ONW-HW1200W
Cellphone 5V	More than 24 times	More than 45 times	More than 90 times
LED light 12V	3W about 80 hours	3W about 150 hours	3W about 300 hours
Desktop computer	About 5 hours	About 8 hours	About 16 hours
Ornamental fish tank	About 6 hours	About 12 hours	About 24 hours
Laptop	About 11-12 hours	About 22-24 hours	About 22-24 hours
Fan 50W	About 4 hours	About 8 hours	About 16 hours
32-inch LCD TV	About 4 hours	About 8 hours	About 16 hours
20W Energy saving lamp	About 10 hours	About 20 hours	About 46 hours
Inverter refrigerator	About 6 hours	About 12 hours	About 24 hours
500W Rice cooker	About 1-2 times	About 2-4 times	About 2-4 times
<b>Automatically change the switch after normal power is off (uninterrupted power)</b>			

### Comparison of similar products

Old-design UPS power supply is big and difficult to be carried. Meanwhile, The service life is short, and the internal battery must be replaced within one year. The capacity of the battery is also small, generally only on standby for about ten to twenty minutes. It is also not satisfactory in terms of environmental protection and energy saving. This UPS abandons the various disadvantages of the old UPS power supply and has a subversive design. The lithium-ion online UPS backup power supply is only 1/5 of the old UPS power supply, its weight is only 6.0kg, and has a life span of three to five times that old-design UPS. The capacity also greatly exceeds the old-design UPS power supply. In terms of practicality, compared to the old-design UPS power supply, this product has added 1 car ignition, 3pcs 12V, 2pcs 5V, 1pcs QC3.0, and 1pcs TYPE-C in addition to the AC output. The DC output interface and LED lighting can supply power to multiple mobile devices at the same time so that when you go have a trip,

you can ensure that all kinds of mobile devices are supplied with power. The exclusive E-USB functional interface is an upgraded interpretation of today's smart home appliances. Its efficient and safe lithium battery and high-frequency inverter technology make this product not only convenient and practical but also a model of environmental protection, energy saving and high efficiency.

## Packing list

No.	Name	Quantity
1	Mobile power main engine	1
2	AC power wire	1
3	Computer online USB wire	1
4	Instruction warranty card	1
5	Qualified card	1
6	Advanced mobile package(optional)	1
7	Folding solar panel 18V 60/120W(optional)	1
8	Car start ignition wire clamp (optional)	1


## Notices

1. This product contains lithium batteries, please keep it away from fire, if no use, please make special treatment, do not throw it away randomly
2. Do not use this product in a humid environment or water, pay attention to moisture, and try to use it in a ventilated and dry environment
3. When using the product, please handle it gently, and do not drop, knock, or violently disassemble it.
4. If you find abnormal phenomena such as smoke or fire during the use of the machine, please stop using it immediately and take relevant fire-fighting measures to avoid an explosion
5. When using this product, please turn it on first, and turn on the corresponding switch and the LED indicator light to confirm that there is output before using it.
6. Please refer to the instruction manual when using this product for the first time.
7. When this product is not in use, please take it out and charge it every three months so to ensure battery life.

## Wide range of electrical appliance can be used



## Documents / Resources

	<p><a href="#">Global Sources ONW-HW400, 800, 1200W Lithium Portable Solar Power Station</a> [pdf] User Manual</p> <p>ONW-HW400, ONW-HW800, ONW-HW1200, ONW-HW400 800 1200W Lithium Portable Solar Power Station, ONW-HW400 Lithium Portable Solar Power Station, ONW-800 Lithium Portable Solar Power Station, ONW-1200W Lithium Portable Solar Power Station, Lithium Portable Solar Power Station, Lithium Portable Station, Solar Power Station, Lithium Station, Portable Station, Station</p>
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## References

- [User Manual](#)

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