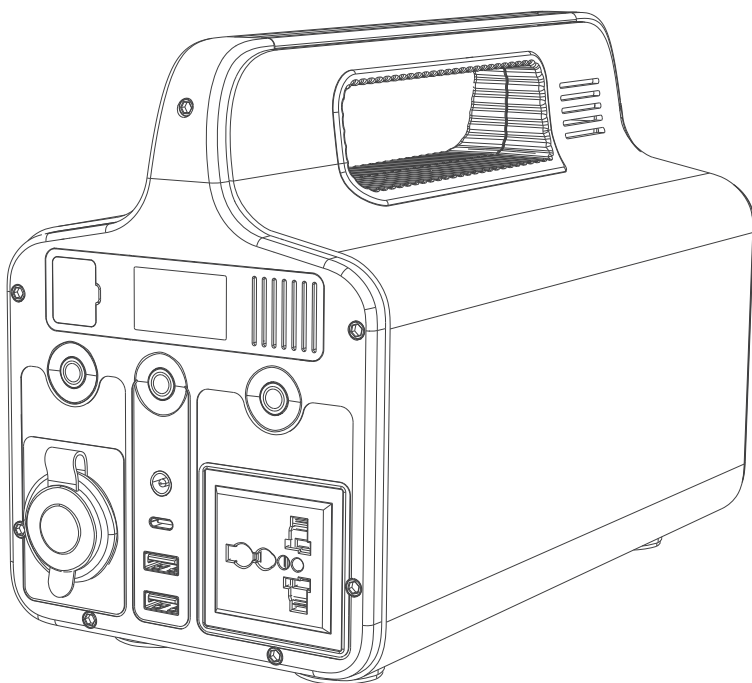


300W MULTI-FUNCTIONAL ENERGY STORAGE POWER SUPPLY

GRAVITY 432



Instruction Manual

Thank you very much for purchasing our product.
In order to help you to use it faster, here we have prepared a complete reference guide. It describes the operating modes, precautions and configurations. Please read the instructions carefully before using.
This manual has been carefully edited. We take the best efforts to make it correct and trustworthy. But we apologize if any errors and omissions. We look forward to your comments and suggestions!

Content

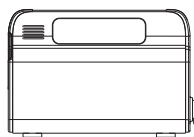
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Precautions

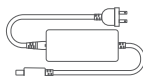
- * When using this product, you should follow the basic precautions, please read all instructions.
- The product includes an AC/DC adaptor with input AC voltage from 100V to 240V. It's prohibited to connect voltages that do not meet the required specifications to the adaptor.
- Please only use the attached adaptor to charge the product.
- Please use the recommended solar panel (optional) for optimal performance.
- Do not damage or drop the product as it may damage the battery and internal circuit.
- Do not attempt to disassemble, or modify the internal and external structure of the product.
- Do not connect the positive and negative terminals of the product with metal objects.
- Do not exposure the product into water or rain. It may cause circuit failure and lead to abnormal chemical reactions, heat, smoke, explosion or fire.
- Do not use or place the product near a fire or any other heat sources (over 80 °C).
- Do not store the product in a high temperature environment (>45 °C) for a long time.
- If the product is not used for a long time, please charge the battery to over 60% capacity, and recharge the battery within 6 months.

Packing list

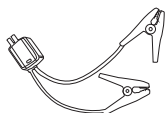
- 1pcs 300W Power Station
- 1pcs User Manual
- 1pcs AC/DC Adapter
- 1pcs Car Jump Starter Cable



300W Power Station



AC/DC Adapter



Car Jump Starter Cable

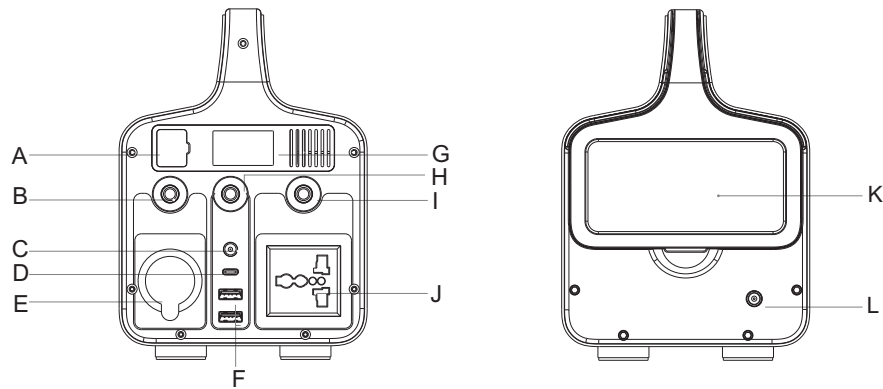


User Manual

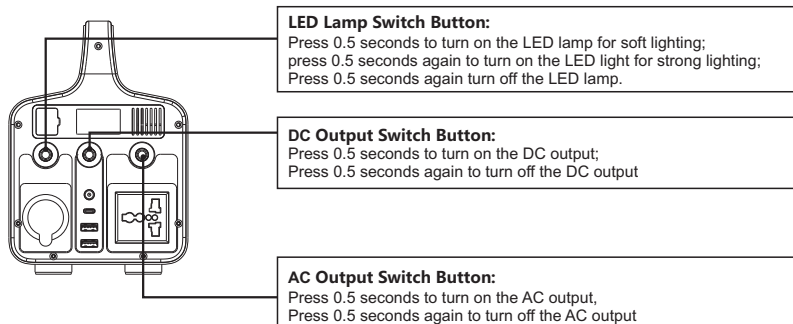
Basic Parameters

Item		Spec
Model		PS300
Shell Material		Aluminum Alloy + ABS + PC
Internal Battery		432Wh (10.8V 40Ah)
Battery Type		Lithium Ion
Charging	Solar Charger	12V-32V/5A Max
	Car Charger	12V-24V/5A Max
	Adaptor	14.6V/5A
AC Output	Power	300W
	Wave Form	Pure Sine Wave
	Voltage	100V/110V or 220V/230V
	Frequency	60Hz or 50Hz
DC Output	2x USB-A QC3.0	5V/3A, 9V/2A (18W Max)
	1x USB-C PD	5V/3A, 9V/12V/15V 3A, 20V/2.25A (45W Max)
	1x DC5521	12V/3A
Jump Starter		12V/300A
Floodlight		5W(High/Low)
Net Weight		5.8 kg
Product Dimensions		L292xW144xH208mm
Operation Temp		0 ~ 40°C
Operation Humidity		0 ~ 90%
Storage Temp		-20°C ~ 40°C
Certifications		CE, PSE, RoHS, FCC, UN38.3

Part Description

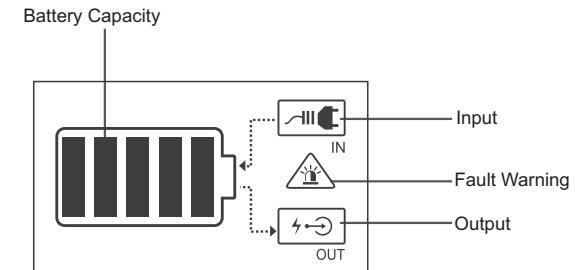


A	Car Jump Starter Output Port	B	LED Lamp Switch Button
C	DC5521 12V Output Port	D	Type-C Output Port
E	DC 12V Car Port	F	QC3.0 USB Output Port
G	Digital Display	H	DC Output Switch Button
I	AC Output Switch Button	J	AC Output Outlet
K	LED Lamp	L	DC Input Port



Note: When any button is push to turned on, the LCD display will light up and indicate "OUT".

LCD Display



As long as the power station is working, the LCD display indicates below information.

- When power station outputs are standby or discharges
- When power station is charged by AC/DC adaptor or solar panel
- When power station is charged and discharged at the same time
- When LCD indicates fault warning , the failure may come from below reasons.

Function	Failure Phenomenon	Cause of Issue	Recovery
DC Output	DC button indicator flashes 2 times	DC12V over current protection	Restart
	DC button indicator flashes 2 times	USB output over current protection	Restart
AC Output	AC button indicator flashes 2 times	AC output overload protection	Restart
	AC button indicator flashes 3 times	AC bus over voltage protection	Restart
	AC button indicator flashes 4 times	AC bus under voltage protection	Restart
	AC button indicator flashes 5 times	AC over temperature protection	Fault reason elimination
	AC button indicator flashes 6 times	AC output low voltage protection	Restart
	AC button indicator flashes 8 times	AC output short circuit protection	Restart
	AC button indicator flashes 9 times	AC communication error	Restart
DC Charging	IN icon flashes 2 times	PV charging input over voltage protection	Fault reason elimination
	IN icon flashes 3 times	PV charging input under voltage protection	Fault reason elimination
Battery	battery column icon flashes 2 times	Battery charging over temperature protection	Fault reason elimination
	battery column icon flashes 3 times	Battery discharge over temperature protection	Fault reason elimination
	battery column icon flashes 4 times	Battery charging low temperature protection	Fault reason elimination
	battery column icon flashes 5 times	Battery discharge low temperature protection	Fault reason elimination
	battery column icon flashes 6 times	Battery pack over voltage protection	Fault reason elimination
	battery column icon flashes 7 times	Battery pack under voltage protection	Charge the battery
	battery column icon flashes 9 times	over load for overall system	Restart

Function Features

- One-batch forming strong aluminum alloy shell with unbreakable handle
- Compact, portable and lightweight
- Internal high energy density long cycle life lithium ion battery
- LCD indicates battery capacity, charging status and inverter output
- Independent switches of main on/off, inverter output and bright floodlight
- AC 300W inverter powers various digital products and electrical devices, like desktop PC, fan, TV, lamp, etc
- High current jump starter for vehicles with maximum 4.0L displacement
- DC 12V cigarette port supports car on-board devices, like car refrigerator, car vacuum, car inflator, etc
- DC5525 12V/3A port supports some 12V powered devices, like LED lamp, DC fan, DC TV, etc
- Dual USB QC3.0 ports charge most USB-enabled devices, like cellphone, Bluetooth, wearable watch, etc
- USB Type-C port supports most USB-C devices, like laptop, tablets, smart phone, etc
- 360° rotatable 5 watts LED floodlight with 25+ hours long lighting, SOS function, and wider lighting coverage
- Unique charging functionality supports voltage from DC 12V to 32V
- Three ways to recharge by solar panel, car cigarette included AC/DC adaptor
- Integrated circuit design improves product safety, quality, efficiency and function performance

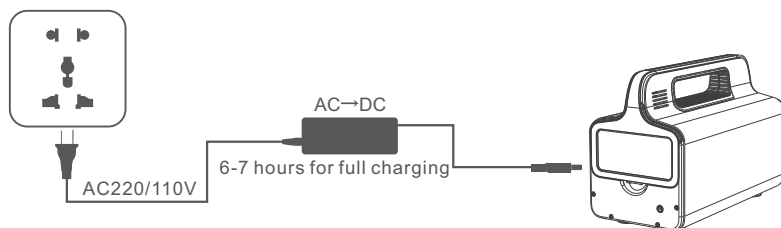
Operation Conditions

1. Operation Environment: indoor or outdoor (non-waterproof)
2. Operating Temperature: 0~45°C
3. Storage Environment: -20~45°C

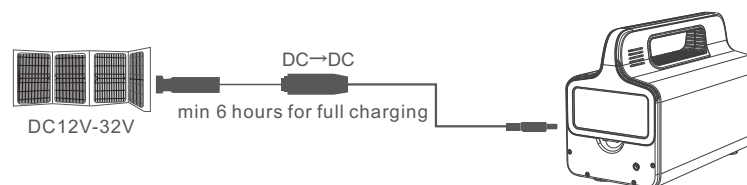
Charging

Three charging methods

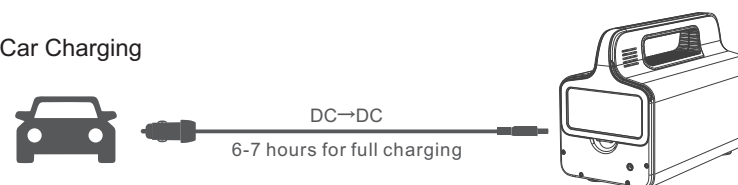
1. AC220V/110V via included AC/DC adaptor



2. Solar Charging



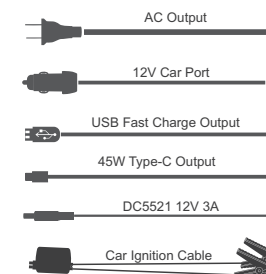
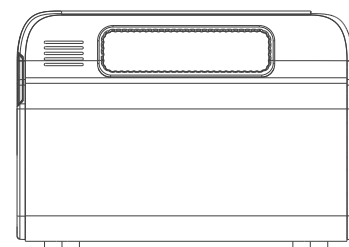
3. Car Charging












Output

Six types of AC and DC outputs







1. DC 12V cigarette lighter output port for car devices or used 12V as battery equipment;
2. AC 220V (110V) AC output outlets for desktop computers, electric fans, electric tools and other home appliances;
3. USB-A QC3.0 port for smart phones, MP3 players, digital cameras, e-readers, tablet, etc;
4. Type-C output port supports fast charging mobile phones, laptops and other devices;
5. DC 5521 output port for routers or use 12V as battery equipment;
6. Jump starter output save your car for starting up when car battery fails.



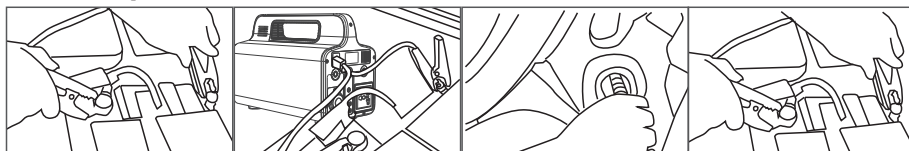
AC Output

 Mini Fridge(200W) 1~3 Hours	 Rice Cooker(300W) 1-1.5 Hours	 TV(60W) 6-7 Hours
 CPAP Machine(40W) 10-15 Hours	 Desktop PC(200W) 2-2.5 Hours	 Fan(60W) 6-7 Hours
 Table Lamp(40W) 8-12 Hours	 Electric Blanket(40W) 8-12 Hours	 Projector(65W) 5-6 Hours

DC Output

 Drone(60W) 6-8 Times	 Laptop(50Wh) 7-9 Times	 Camera(30Wh) 12-15 times
 GoPro(14.5Wh) 25-30 Times	 iPad(15Wh) 25-30 Times	 Phone(12Wh) 35-40 Times

Car Jump Starter



1
Connect the clips to the car battery; red clip to battery positive electrode and black to negative electrode

2
Connect the other end with plug into power station

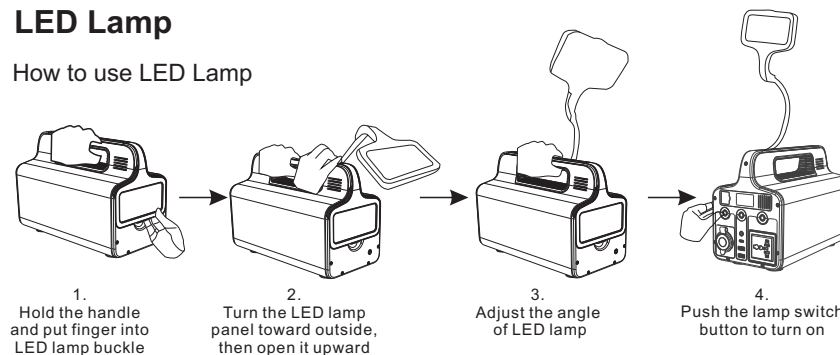
3
Starting the car as usual

4
Remove the jump starter cable from power station and car battery

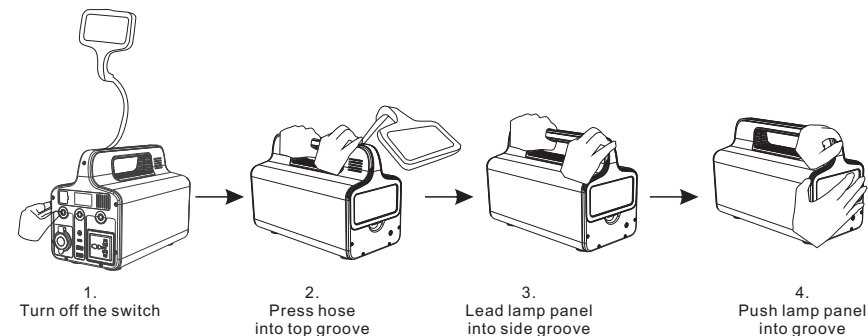
Note: the product can only start up cars with 12V battery and within 4L displacement.

LED Lamp

How to use LED Lamp



How to turn off LED Lamp



FAQ (Frequently Asked Questions)

1. What device can be powered by the product?

Please check specification label of your device and make sure the power rating, voltage range meets the output of the product. For example, the AC output outlet can power most of device with power rating lower than 300W and the USB-A ports powers most of USB-enabled devices.

2. How long can the battery be stored after one charge?

The internal battery can keep capacity for 1 years after full charge. But it's strongly suggested to recharge the battery every 6 months.

3. Can the product be charged and discharged/output at the same time?

Yes, the product can be charged by solar panel or AC/DC adaptor and power your device simultaneously.

4. Is the internal battery replaceable?

It's not replaceable for an end user unless you have professional knowledge of lithium ion battery and power supply products. Once you open the product shell, the warranty will be invalid.