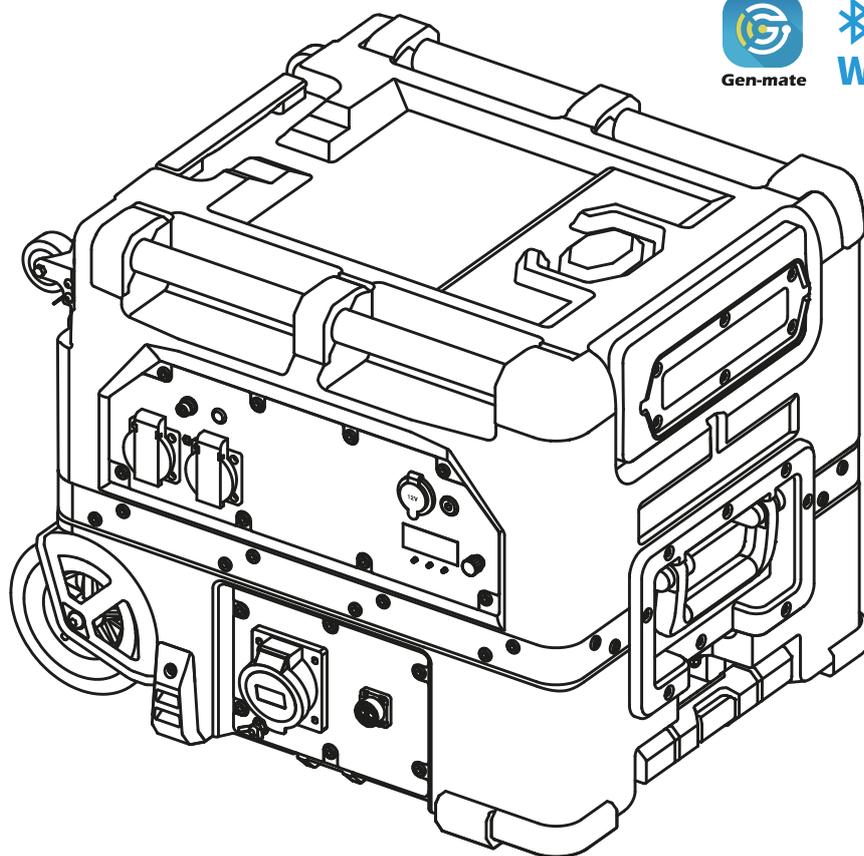


GENZERO

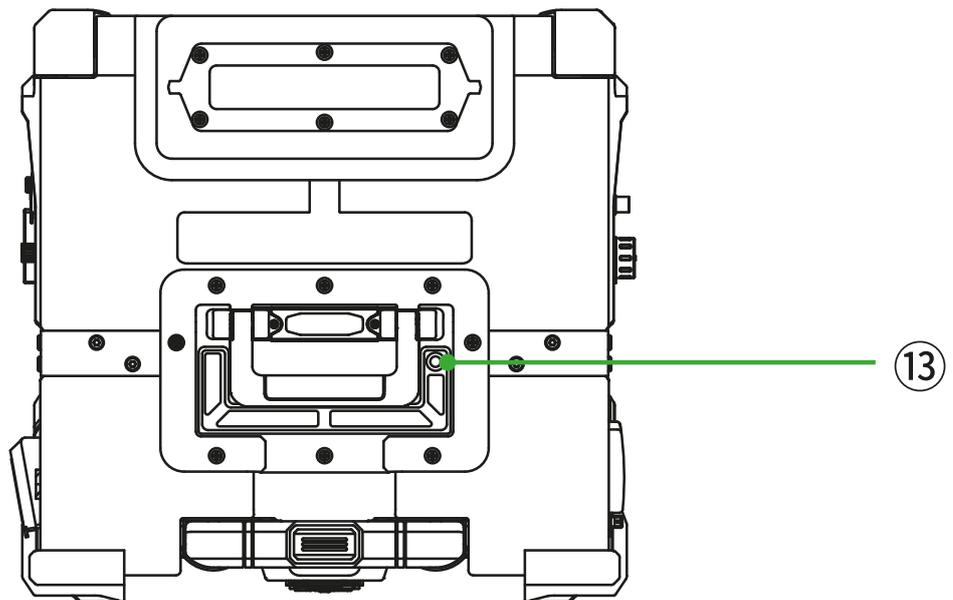
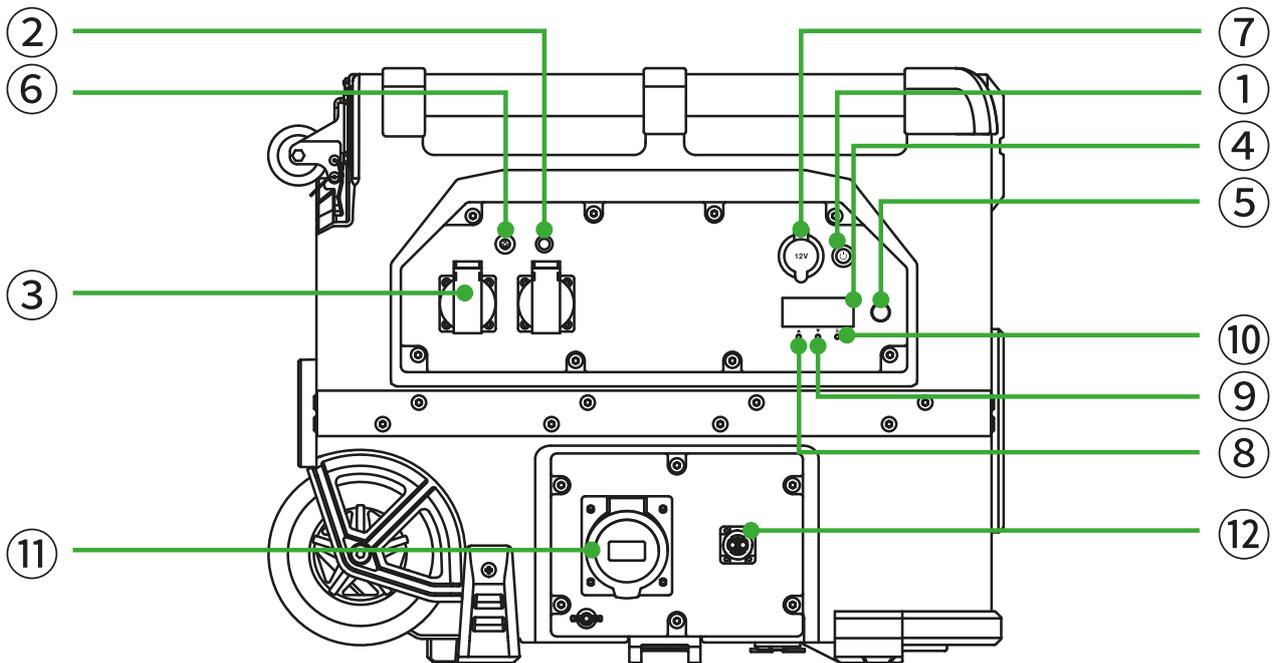
PORTABLE POWER STATIONS

GZ-COBALT-6000-110V/230V



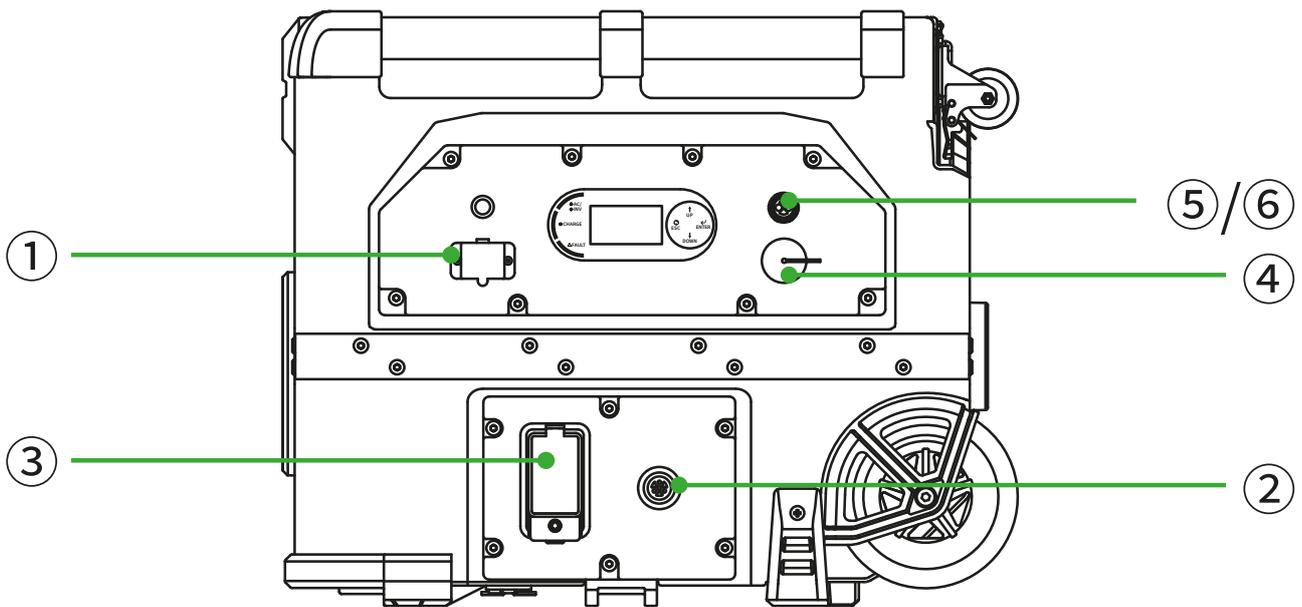
Before using, please read the manual carefully.

OUTPUT FUNCTION



- | | |
|-------------------------------------|--------------------------------|
| ① Main Switch | ⑦ Cigarette Lighter Output |
| ② AC Switch | ⑧ Display Button ▲ |
| ③ AC Output | ⑨ Display Button ▼ |
| ④ LCD Display | ⑩ Display Button S |
| ⑤ Charging Power
Adjustment Knob | ⑪ AC Output 32A |
| ⑥ Dry Contact Port | ⑫ EV Charger Output (optional) |
| | ⑬ Light Switch |

INPUT FUNCTION

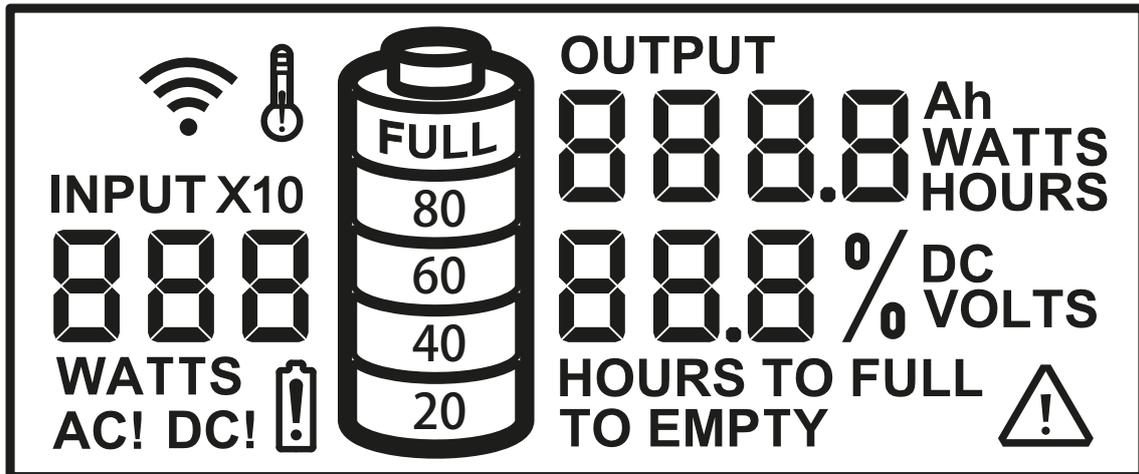


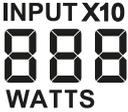
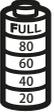
- | | |
|---------------------|-------------------------------------|
| ① AC Charging Input | ④ Solar Charging Input |
| ② AC Input 32A | ⑤ Driving Charging Input (optional) |
| ③ AC Input Breaker | ⑥ DC Charging Input (optional) |

USAGE INSTRUCTIONS

- (1). Main Switch: Turns all outputs of the power station ON or OFF. The "AC switch" has power output only after the Main Switch is turned ON. Press and hold until the switch indicator lights up, then release to power ON. Press and hold until the switch indicator turns off, then release to power OFF.
- (2). AC Switch: This switch turns ON or OFF AC output of the power station.
- (3). Display Button ▲: You can activate the display backlight or value display for remaining capacity of the battery by pressing the button once, and for total running time by pressing the button twice.
- (4). Display Button ▼: You can activate the display backlight or value display for battery voltage by pressing the button.
- (5). Display Button S: You can activate the display backlight by pressing the button, and the factory or authorized dealer can use this button to initialize the LCD Display.
- (6). Charging Power Adjustment Knob: Rotate the knob to change the AC charging power of the power station. Press the knob to start charging the power station at the selected power level by default.
- (7). Dry Contact Port: Used to control the automatic start stop charging of the generator.
- (8). Light Switch: Press this switch to turn on the light. Each press changes the mode. Press and hold to turn off.
- (9). AC Input Breaker: Provides overload protection and short-circuit protection to ensure electrical safety. The circuit breaker must be turned ON after startup to enable charging.

DISPLAY FUNCTION



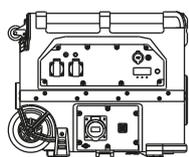
- ①  WiFi connection
- ②  Charging input power
- ③  Over temperature
- ④  DC output short circuit
- ⑤  Battery icon
- ⑥  Low battery voltage
- ⑦  Output power
- ⑧  Remaining battery capacity
- ⑨  Remaining charging time
- ⑩  Remaining discharging time
- ⑪  Shows the value in Ah for remaining capacity of the battery by pressing the button ▲ once, and for total running time in HOURS by pressing the button ▲ twice.
- ⑫  Shows the battery voltage by pressing the button ▼.

FAULT CODES

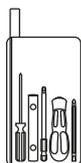
Display Fault Codes	Mainboard Fault List	Fault Source	Troubleshooting Guide	Fault Thresholds
001	Battery Output Over-current	BMS Data	Battery output short circuit: Turn off the main switch, disconnect the battery Anderson connector, check if there is a short circuit at the battery power supply port. After eliminating the short circuit, reconnect the battery Anderson connector and power on to use.	/
002	Battery Under-voltage		Battery under-voltage: Immediately connect the charger to charge it (If the battery level is too low to power on and the device does not have charging auto-start function, connect the battery Anderson port to a quick charger to charge the battery directly). After the battery level returns to normal, it can be used normally.	/
003	Battery Over-voltage		Battery over-voltage: Immediately disconnect the charger, check if the charger specifications meet the product requirements. Discharge appropriately to resume normal use.	/
005	Battery Fault (General Fault Flag)		Other battery faults: Disconnect the Anderson connector, wait for 10 seconds, then reconnect. Power on to check if the fault disappears. If it disappears, normal use can resume. If the fault persists, contact technical personnel.	Other BMS faults
004	Ambient Over-temperature	Mainboard Hardware Protection Port	Internal unit temperature too high: Wait for the temperature to drop to the normal range before continuing use.	50°C
006	DC Hardware Over-current		Check if there is a short circuit at the DC output port. After resolving the issue, restart the main switch to continue use.	/
007	Inverter AC Over-current Protection	Inverter Fault Data	Check if there is a short circuit at the inverter output port. After resolving the issue, restart the main switch to continue use.	AC BIT7
008	AC Over-load		Check if the load power is too high, exceeding the inverter output power. Reduce the power and restart the main switch to continue use.	AC BIT20
009	Inverter Bypass Output Over-current		Check if there is a short circuit at the inverter output port. After resolving the issue, restart the main switch to continue use.	AC BIT23
010	Inverter Over-temperature Protection		Inverter temperature too high: Wait for the temperature to decrease to the normal range, then restart the main switch to use.	AC BIT8\BIT9
011	Inverter PCB Ambient Temperature Too High / Synchronous Rectification MOSFET Over-temperature		Internal key components of the inverter temperature too high: Wait for the temperature to drop to the normal range, then restart the main switch to use.	DC BIT6\BIT7
012	Inverter Internal Fault (General Fault Flag Bit)		Inverter fault: Check if wiring is correct, if output sockets and loads are normal, with no short circuits or overloads. After resolving issues, restart the main switch and check if the fault code persists. If the fault code still displays, contact technical personnel.	AC+DC, other faults
013	BMS Communication Error	/	Check if the battery pack communication cable is normal. After resolving wiring issues, restart the main switch to resume normal use.	/
014	Charging Abnormality	/	Check if the charging environment and charging specifications meet product requirements. After resolving issues, restart the main switch to resume normal use.	(BMS read voltage differs from checked voltage by more than 2V)

PACKING LIST

STANDARD



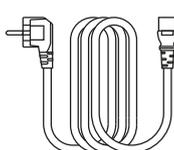
Portable Power Station



Tools Bag



Owners' Manual



AC Charging Cable

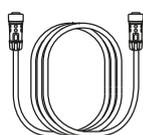


Solar Charging Cable



AC Fast-Charging Plug

OPTIONAL



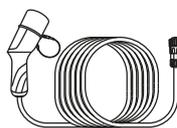
Dry Contact Cable



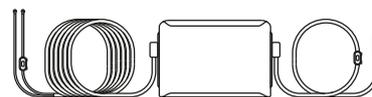
Cigarette Lighter Charger



32A Industrial Socket (EU)

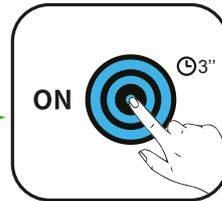
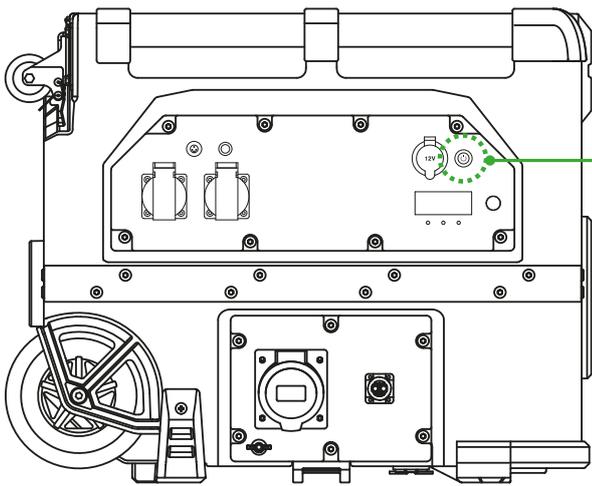


EV Charging Gun

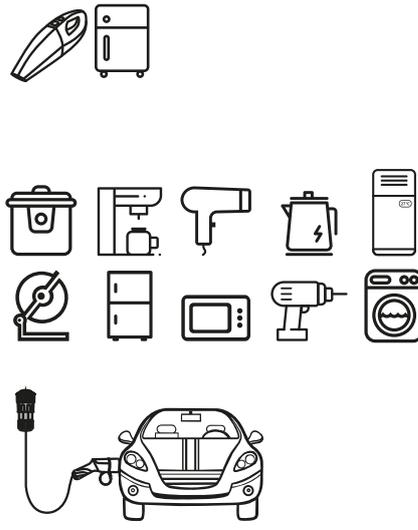
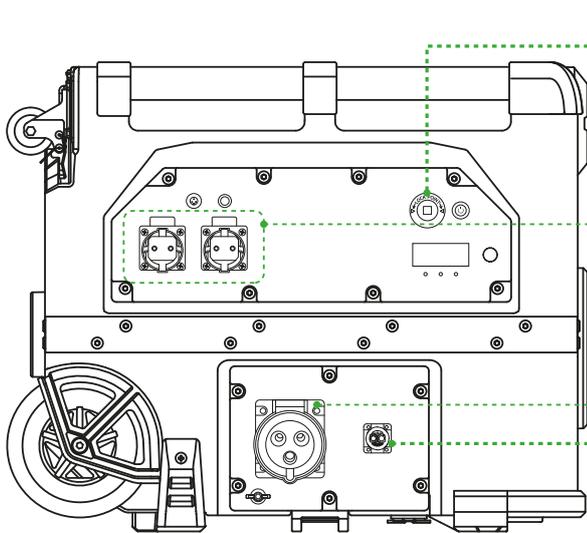


Driving Charger

PRODUCT POWER ON/OFF



POWER SUPPLY FOR EQUIPMENT



EV Charger Output (Optional)



Mobile phone
(15Wh)
×323+



Aircondition
(580W)
Up to 8.3 hours



Electric fan
(100W)
Up to 48 hours



Kettle
(1800W)
Up to 2.7 hours



Microwave oven
(1500W)
Up to 3.2 hours



Electric pressure cooker
(200W)
Up to 24 hours



Refrigerator
(200W)
Up to 24 hours



Drilling machine
(2500W)
Up to 1.9 hours



Coffee machine
(2000W)
Up to 2.4 hours



Cutting machine
(4000W)
Up to 1.2 hours

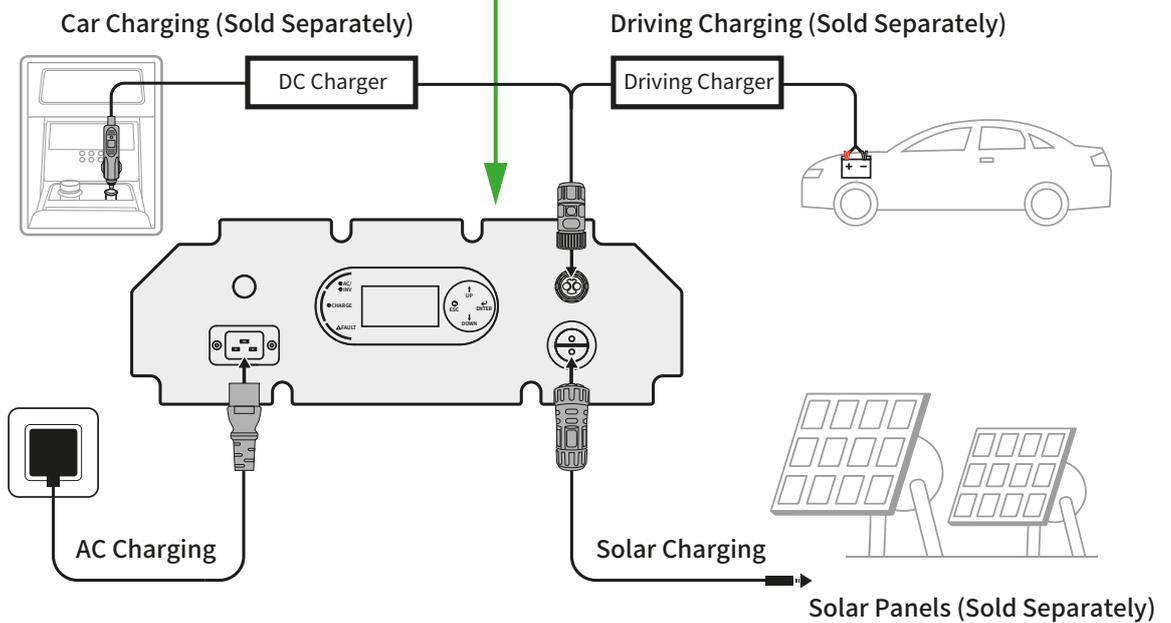
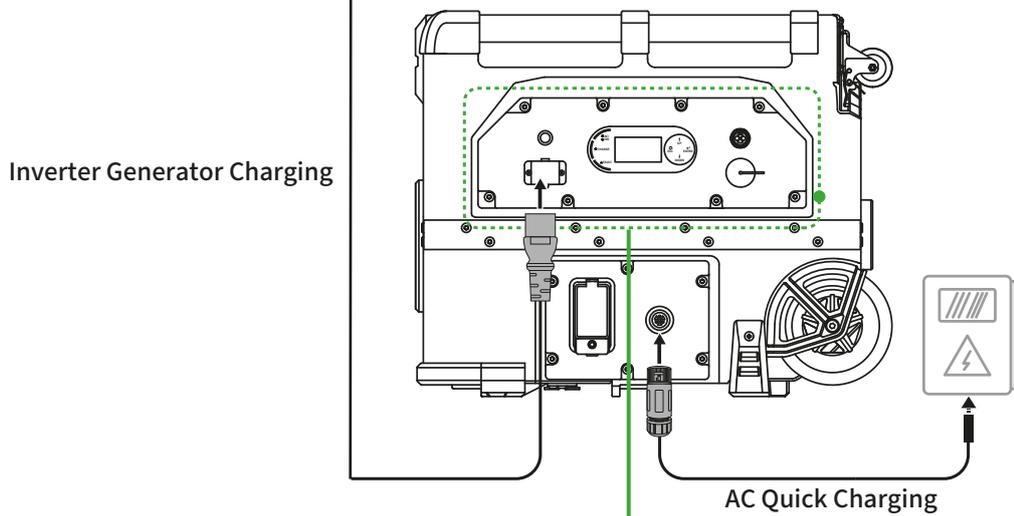
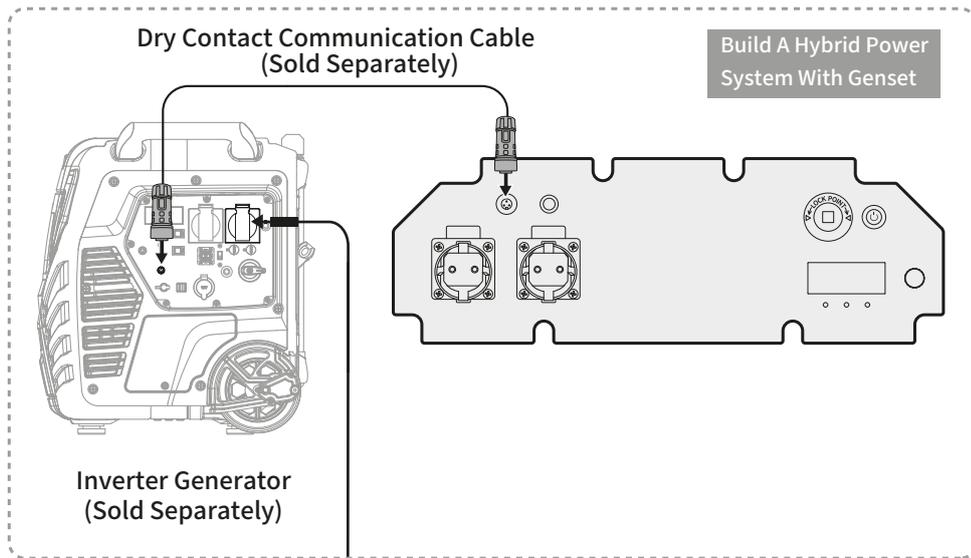


Hair drier
(1600W)
Up to 3 hours



Drone
(40Wh)
×120+

CHARGE THE POWER STATION



PRODUCT SPECIFICATIONS

GENERAL INFO

Model	GZ-COBALT-6000-110V/-230V
Dimensions/Net Weight	610X520X500mm, 70kg
Battery	LiFePO ₄ , 5376Wh, 105Ah(51.2V), 3000 cycles to 80%+capacity
Operating Temperature	Discharging Temperature: -20 °C ~50 °C, Charging Temperature: 0 °C ~45 °C
Transfer Time	≤ 20ms
LED	20W
Interactive Interface	LCD Panel / APP
Optional Function	EV Charger Output / Driving Charger / DC Charger
Protection Grade	Unit IP43 / Battery Pack IP66

OUTPUT

AC Output (10A/16A/20A/30AX 2) + (32A/50AX 1) + (50AX 1 For EV Charger AC Output)	Rated Power	6000VA
	Peak Power	12000VA
	Output Waveform	Pure-Sine Wave, THD<3%
	Single-phase Rated Voltage	220/230/240V
	Split-phase Rated Voltage	100/200V, 110/220V, 120/240V
	Rated Frequency	50/60Hz
DC Output	Cigarette Lighter Port(X 1)	12V/10A

CHARGING INPUT

AC (16A/32A Dual Input)	Wall Outlet & AC Generator	220~240VAC	Max. 3600W / 5500W, 1.7/1.1 hours fully charged
		100~120VAC	Max. 1800W / 5500W, 3.5/1.1 hours fully charged
Solar	MPPT Control System	220~240VAC	80~450VDC 27A MAX, Max. 5500W, 1.1 hours fully charged
		100~120VAC	12~150VDC 30A MAX, Max. 3000W, 2 hours fully charged
Driving Charging(optional)	Driving Charger With XT60 Output Port		58.4VDC MAX, Max. 800W, 7 hours fully charged
DC(optional)	DC Charger With Car Cigarette Lighter Input Plug		12~30V, Max.75W, 80 hours fully charged

IMPORTANT SAFETY INFORMATION:

- To ensure heat dissipation, please make sure at least 5cm space around the generator for smooth airflow.
- Never submerge in water.
- If you suspect the unit has water inside, do not use or attempt to recharge.
- Dropping the Generator may damage the battery or circuit components inside.
- IF THE Generator HAS BEEN SUBMERGED IN WATER OR SUSTAINED DAMAGE IT COULD BE A FIRE HAZARD. DO NOT USE THE PRODUCT. Place outdoors in a non-combustible container well away from flammable materials. DO NOT RECHARGE THE BATTERY AND CONTACT NIGHTSEARCHER. Place the generator outdoors in a non-combustible container well away from flammable materials and contact: www.nightsearcher.co.uk +44 (0)2392 389774.
- Always recharge the generator on a hard, flat, heat resistant surface.
- The battery will not reach optimum performance until 4-5 charging cycles
- Do not turn the generator off immediately after use, only turn off once the fan has stopped running.
- Avoid charging the battery in temperatures below 0°C or exposing the battery to temperatures below -5°C or above 40°C.
- Never use the charger if the leads, contacts or casings are damaged. Do not use any chargers other than those provided.
- Never expose the charger to rain, moisture or damp. If you suspect any of these have occurred then do not use the charger.
- Always check with your airline before attempting to transport by air.
- We recommend the generator is recharged every 3 months if not used for a long time.
- Keep out of reach of children.
- In case of any problems or questions please contact NightSearcher Limited or an authorised distributor.



Warranty

All NightSearcher products have a 10-year standard warranty on all manufacturing defects and 5-year warranty on all rechargeable batteries from the date of purchase. For more information visit: <https://nightsearcher.co.uk/pages/warranty-information>

If at any time, you need to dispose of this product or parts of this product: please note that waste electrical products and batteries should not be disposed of with ordinary household waste. Recycle where facilities exist. Check with your local authority for recycling advice. Alternatively, NightSearcher is happy to take receipt of this product at end-of-life and will recycle it on your behalf.



UK Sales office - NightSearcher Limited, Unit 4 Applied House, Fitzherbert Spur, Farlington, Portsmouth, Hampshire, PO6 1TT, UK
T: +44 (0)23 9238 9774 | E: sales@nightsearcher.co.uk

German Warehouse - NightSearcher Lichttechnik GmbH Stadtweide 17 Emmerich am Rhein Kleve 46446 Deutschland
T: +49 282 2602 3110 | E: info@nightsearcher-lichttechnik.de

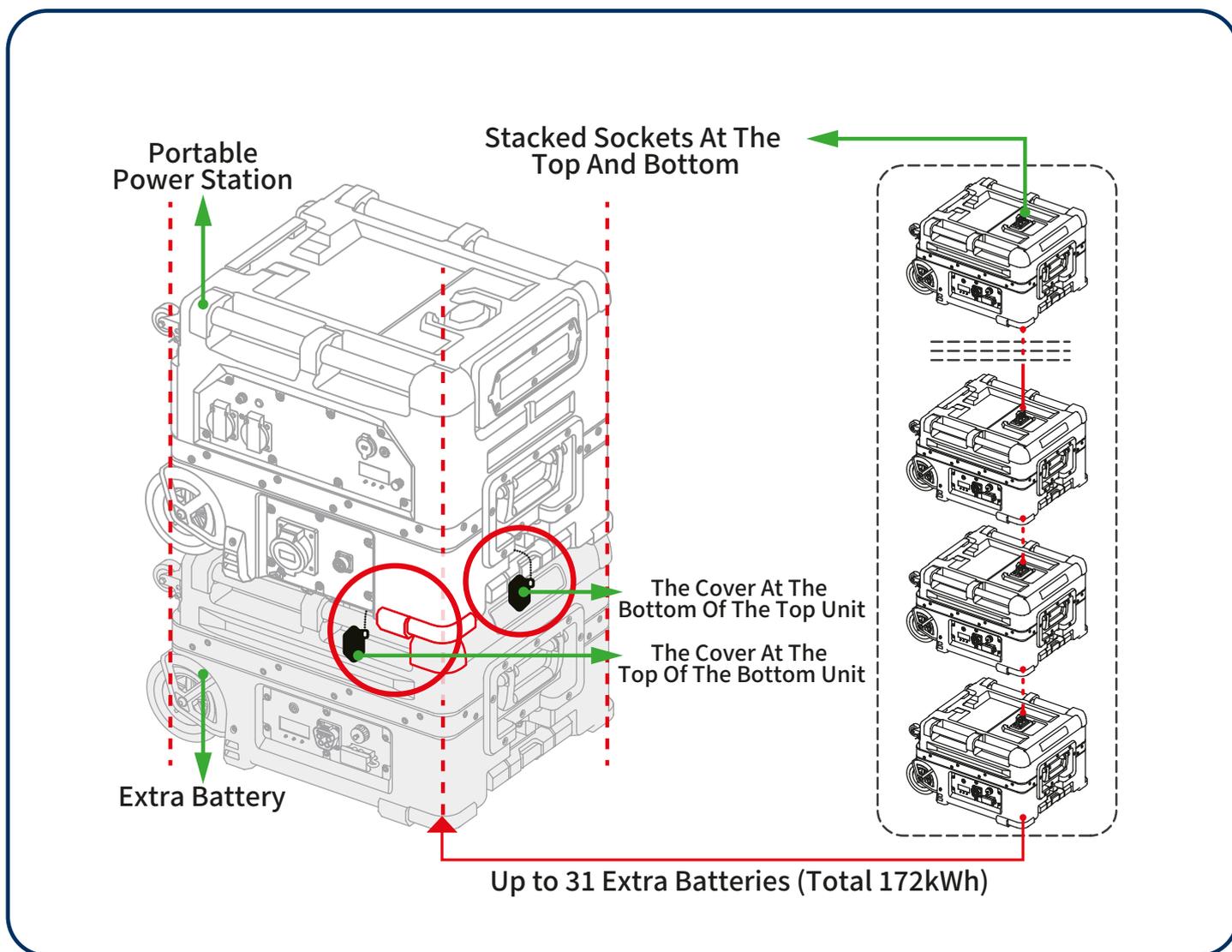
Poland Sales office - NightSearcher Export - ROW Garbary 53, 61-869 Poznan, Poland
T: +48 61 624 29 98 | E: exportsales@nightsearcher.com

NOTE

- Whether the product can be charged or discharged depends on the actual temperature of the battery pack. The maximum charging or discharging power is related to the ambient temperature and SOC of battery. For specific parameters please check the label on the base of the product.

⚠ WARNING

1. AC output voltage is very high, operators must be protected from electric shock at all times.
2. Do not touch conductors in the top and bottom stacked sockets to prevent electric shock!
3. It is strictly prohibited to connect the AC output to the power grid, otherwise it will damage the machine.
4. The voltage of the charging CAN NOT exceed their INPUT voltage range.
5. Do not connect the positive and negative terminals of the PV/DC charging cable incorrectly, otherwise it may damage the machine.
6. When not in use, please keep all covers of the socket and connection port closed to prevent water from entering and damaging the machine.
7. Make sure turn OFF the main switch before transportation or storage.
8. During storage, please make sure to charge and discharge the power station at least every 3 months.



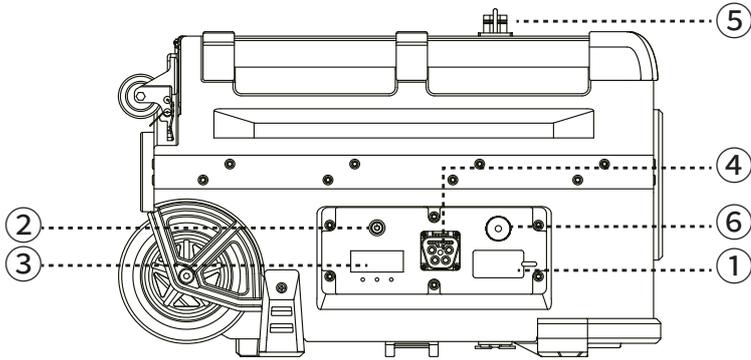
NOTE

1. Before stacking, remove the covers from both the top and bottom stacking sockets. Then, place the chains on both sides of the machine in a position that does not affect vertical stacking.
2. Ensure the two stacked machines are vertically aligned on all four sides, with their rubber components properly interlocked.

GZ-COBALT-6000-SP-BP

Expandable Battery Pack - User Manual

PRODUCT DISPLAY



① DC Quick Charging Input: Charge the extra battery from DC 48V power unit (optional equipment).

⚠ WARNING DO NOT Short Circuit The Socket!

② Main Switch: This switch turns ON or OFF the extra battery.

③ LCD Display: Display remaining capacity of the battery, input/output watts, remaining operation hours or charging hours of the battery, battery voltage, total running time, and fault warnings.

④ Battery parallel port: can be connected to extra battery for expansion.

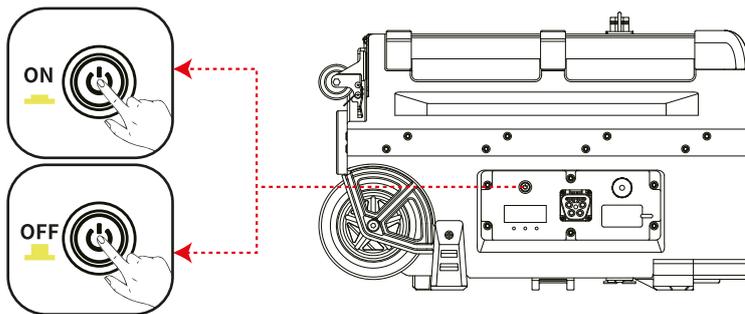
⑤ Parallel stacking port: can be connected to power station or other extra battery for expansion.

⚠ WARNING DO NOT Short Circuit The Socket!

Pay attention to the voltage label, and it is prohibited to connect to a parallel port with difference rated voltage. When not in use, please keep the top and bottom stacked sockets covers closed to prevent water from entering and damaging the machine!

⑥ PV Charging Input (optional): Charge the extra battery from solar panels (optional equipment).

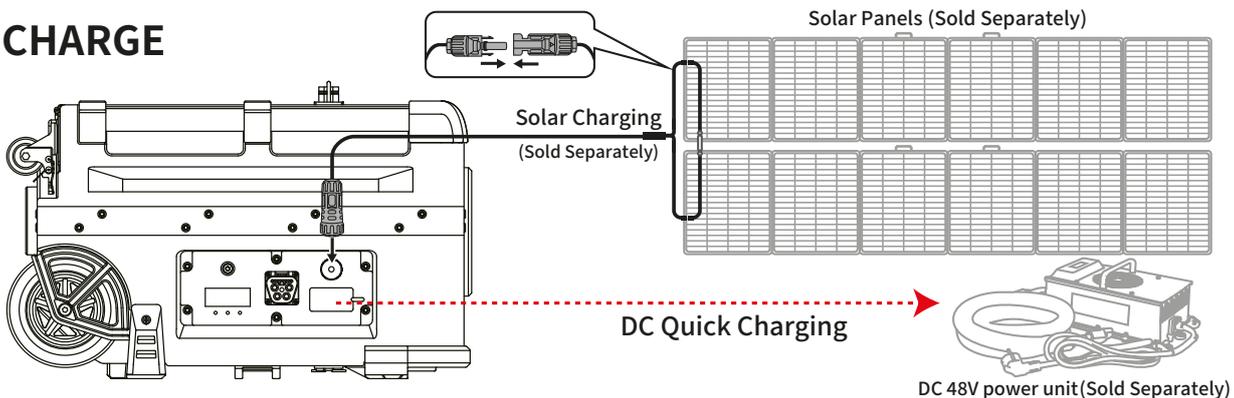
PRODUCT ON/OFF



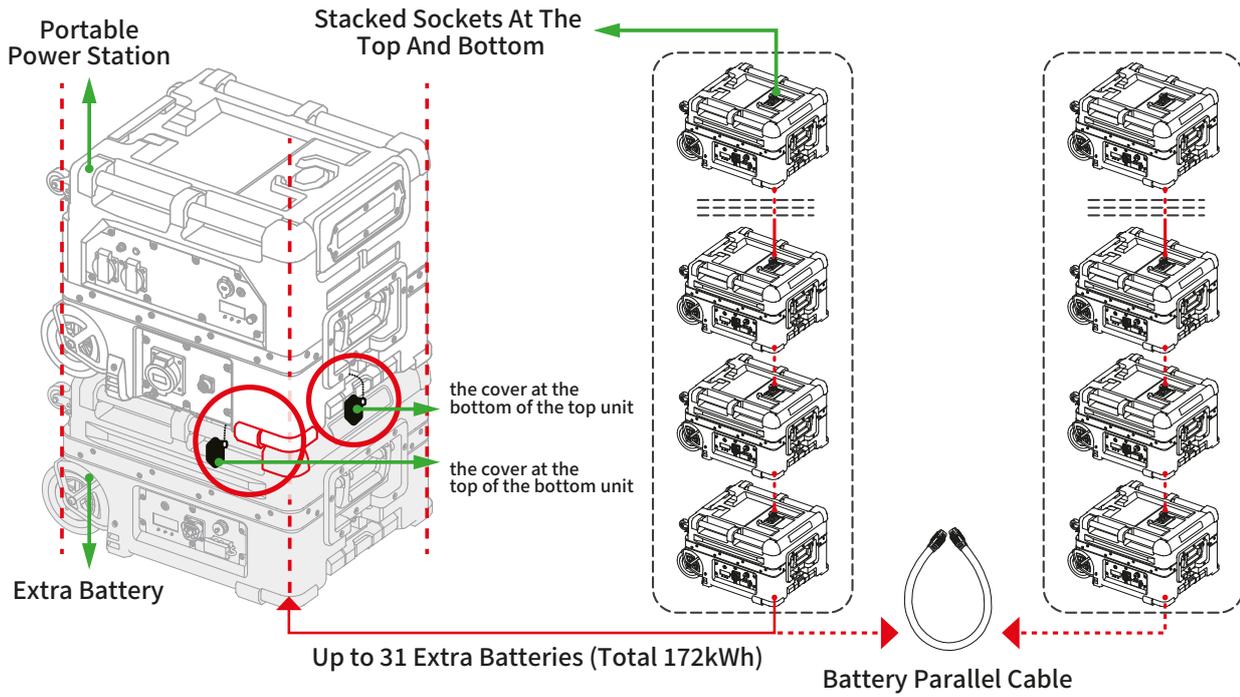
NOTE

Whether the product can be charged or discharged depends on the actual temperature of the battery pack and SOC of battery.

CHARGE

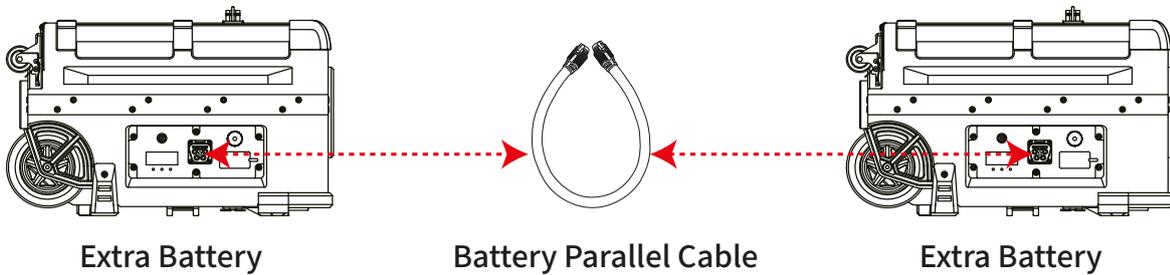


BATTERY PARALLELING



⚠ ATTENTION

1. Before stacking, remove the covers from both the top and bottom stacking sockets. Then, place the chains on both sides of the machine in a position that does not affect vertical stacking.
2. Ensure the two stacked machines are vertically aligned on all four sides, with their rubber components properly interlocked.
3. Before use, please turn on the main switch of the power station, then connect the parallel cable between the two extra batteries. Finally turn on the main switch of the extra battery.



⚠ WARNING

1. The voltage of the charging CAN NOT exceed their INPUT voltage range.
2. Do not connect the positive and negative terminals of the PV/DC charging cable incorrectly, otherwise it may damage the machine.
3. When not in use, please keep all covers of the socket and connection port closed to prevent water from entering and damaging the machine.
4. Make sure turn OFF the main switch before transportation or storage.
5. During storage, please make sure to charge and discharge the power station at least every three months.

Expandable Battery Pack - Specifications

Model	GZ-COBALT-6000-SP-BP
Battery Capacity	5376Wh, 105Ah(51.2V)
Battery Cycle Life	>3000 cycles to 80%+capacity
Operating Temperature	Discharging Temperature: -20°C~50°C, Charging Temperature: 0°C~45°C
DC Quick Charging Input	58.4VDC MAX, Max. 3500W, 2 hours fully charged
Solar Charging Input(optional)	12~150VDC, Max. 1200W, 5 hours fully charged
Protection Grade	Unit IP43 / Battery Pack IP66