

Chongqing Radiance Energy Technology 2BBM4-E1000 Portable Power Station User Manual

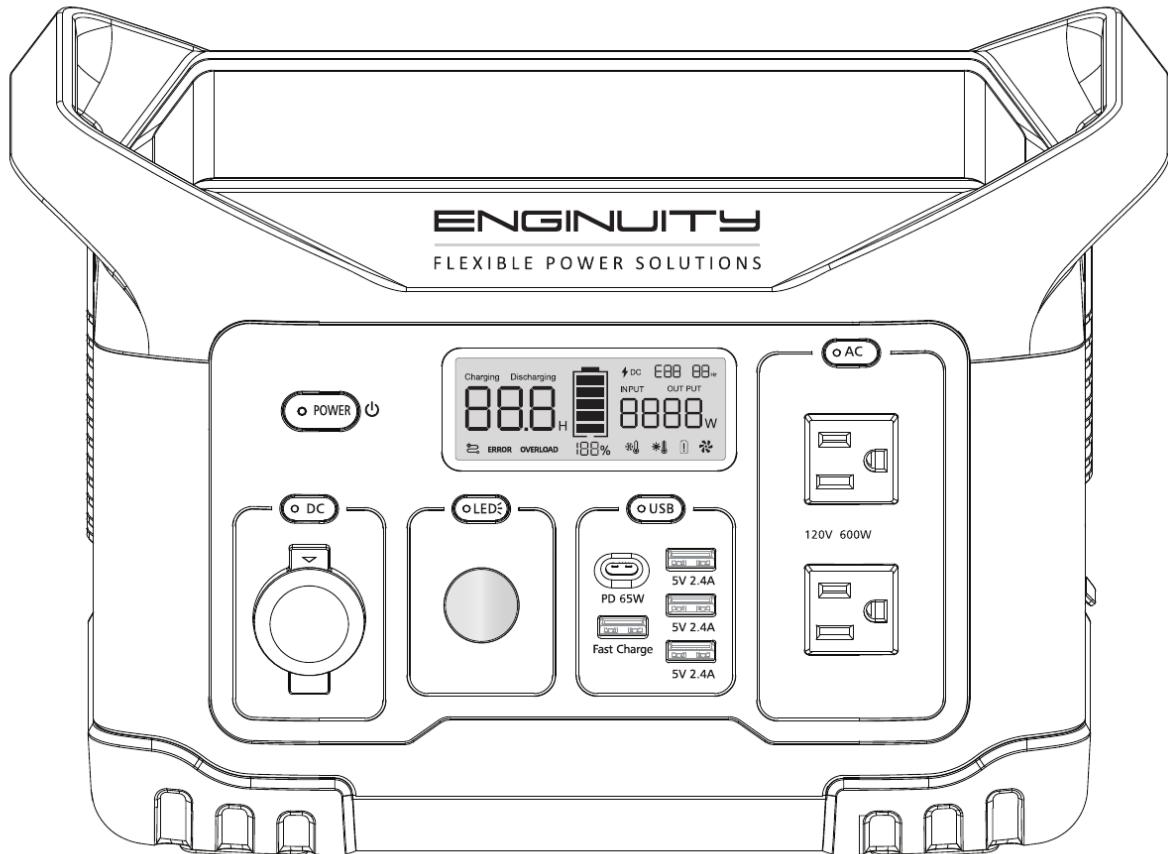
Manualsum, simplified manuals

Table of Contents

- [ENGINUITY](#)
- [Portable Power Station](#)
- [Power Station / User Manual](#)
- [SPECIFICATIONS](#)
 - ■ ■ [GENERAL](#)
 - [INPUT](#)
 - [OUTPUT](#)
 - [OTHERS](#)
- [PACKING LIST](#)
- [PRODUCT FEATURES](#)
- [LCD SCREEN DETAILS](#)
- [CHARGING YOUR POWER STATION](#)
 - ■ ■ ■ [AC CHARGING:](#)
 - [DC CHARGING:](#)
 - [SOLAR CHARGING:](#)
- [USING YOUR POWER STATION](#)
- [USING YOUR POWER STATION](#)
- [TROUBLESHOOTING AND ERRORS](#)
- [MAINTAINING AND STORING THE UNIT](#)

ENGINUITY

Portable Power Station



Power Station / User Manual

SPECIFICATIONS

GENERAL

Model	E600
Capacity	515Wh (22.2V)
Size	11.6 in. (294 mm) [L] x 7.2 in. (184 mm) [W] x 8.1 in. (207 mm) [H]
Net Weight	13 lbs. (5.9 kg)

INPUT

DC Input	12-30V DC, 8.5A Max
Charge Time	Approximately 5-6 hours

OUTPUT

AC (x2)	120V AC, 60Hz, 600W Max Rated
USB-A (x3)	5V DC, 2.4A, 12W Max Per Port
USB-A Fast Charge (x1)	5V DC, 3A/9V DC, 2A/12 V DC, 1.5A, 18W Max
Type-C Fast Charge (x1)	5V DC, 3A/9V DC, 3A/12 V DC, 3A/15V DC, 3A/20V DC, 3.25A, 65W
DC Output	13V DC, 10A
Wireless	10W

OTHERS

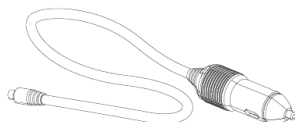
Cell Type	NCM
Cycle Life	500 cycles to 80% capacity @25°C charge and discharge environment
Charge/Discharge Rate	0.5C charge (1.45A per cell), 1 C discharge (2.9A per cell)
Protections	Overcharge protection, high temperature protection, low temperature protection, over-discharge protection, overload protection, short circuit protection, over-current protection, battery fault protection
Charging Temperature	42.8°F to 104°F (6 to 40°C)
Discharge Temperature	14°F to 104°F (-10 to 40°C)
Working Humidity	0% to 90% (non-condensate)
Product Expansion	N/A

PACKING LIST

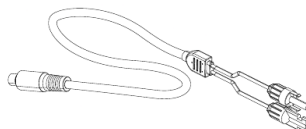
The following products and accessories are included with your purchase:



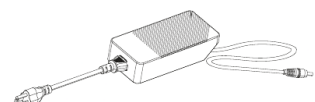
POWER STATION



CAR CHARGER CABLE

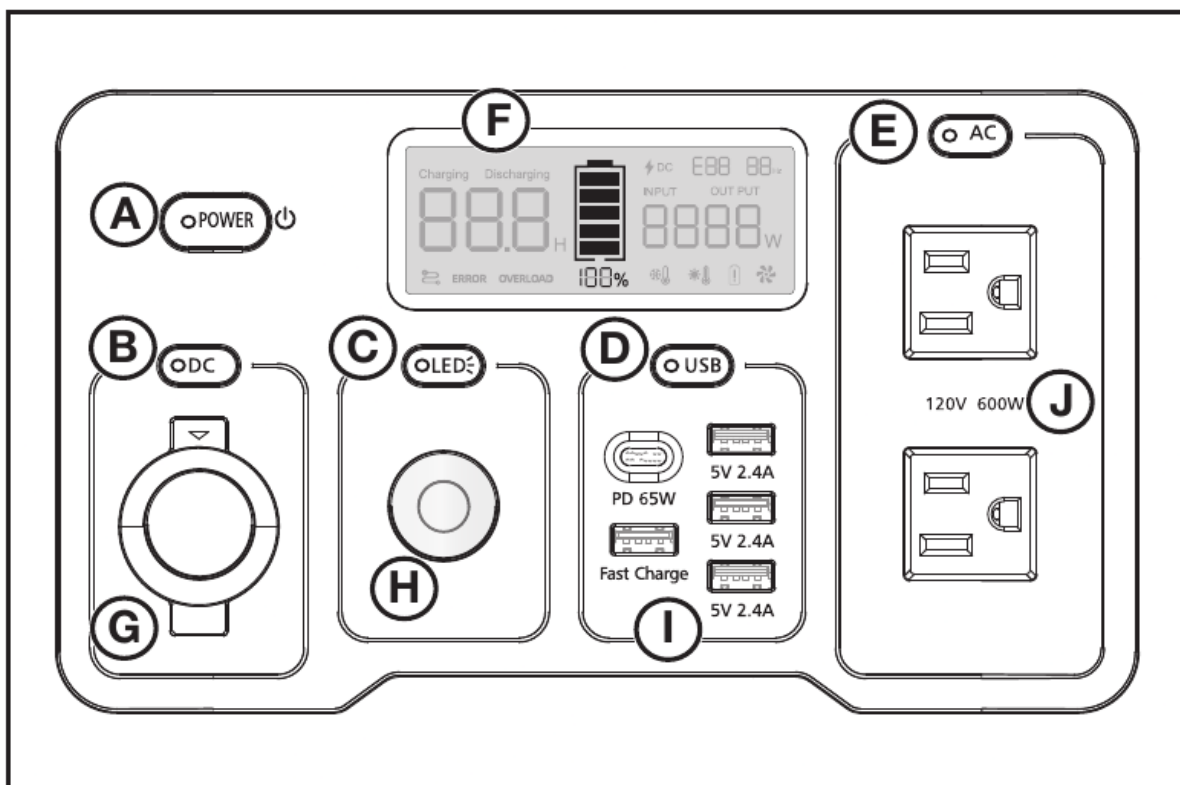


MC4 ADAPTER CABLE



AC ADAPTER CABLE

PRODUCT FEATURES



A. Power Button

B. DC Button

C. LED Button

D. USB Button

E. AC Button

F. LCD Screen

G. DC Output

H. LED Light

I. USB Output

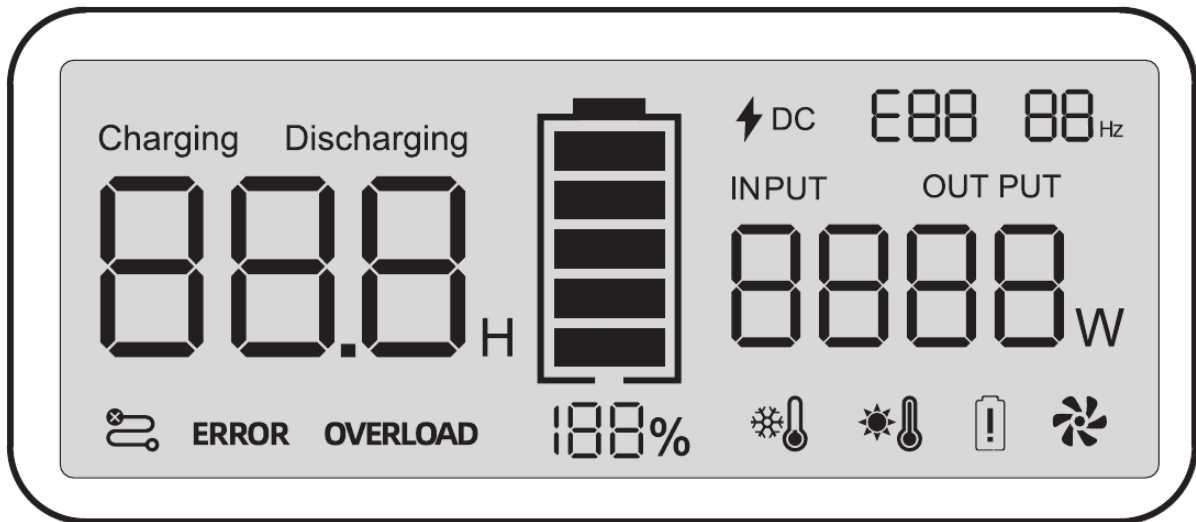
J. AC Output

K. Wireless Charging Pad

L. Carrying Handles

M. DC Input Port

LCD SCREEN DETAILS



ICON

DESCRIPTION

Displays the remaining discharge time (in hours). The discharge time will vary depending on the load and battery charge level. When the unit is charging and discharging simultaneously, the display will alternate between the discharge and charge time remaining.

Displays the remaining charge time (in hours). The charge time will vary depending on the input source and the battery charge level. When the unit is charging and discharging simultaneously, the display will alternate between the discharge and charge time remaining.

Shows the battery charge level.

Indicates a communication failure. Contact customer service for details.

Indicates errors that are not related to the internal battery.

Indicates an overload condition. To avoid this fault, verify that the power requirements for the connected device(s) do not exceed the unit's load capacity.

Indicates that the power station is connected to a DC charging source.

Indicates errors that are related to the internal battery such as over temperature, over-current, etc.

Displays the AC output frequency (in hertz).

Displays the input charging power (in watts).

Displays the load output (in watts).

Indicates that the power station is operating outside of normal temperature thresholds. Remove loads and/or disconnect cables (if applicable). Allow product to cool or warm to normal operating temperature.

Indicates that the cooling fan is running.

CHARGING YOUR POWER STATION

The power station is shipped in a low charge condition. Using the AC adapter, fully charge the power station before first use. The initial charge could take between 5 and 6 hours. Subsequent charge times will vary.

To avoid damaging the unit, only use cords that are provided or approved by the manufacturer to charge the power station. If desired, the power station can be used to power other devices while it is being charged. When the unit is charging and discharging simultaneously, the display will alternate between the discharge and charge time remaining.

AC CHARGING:

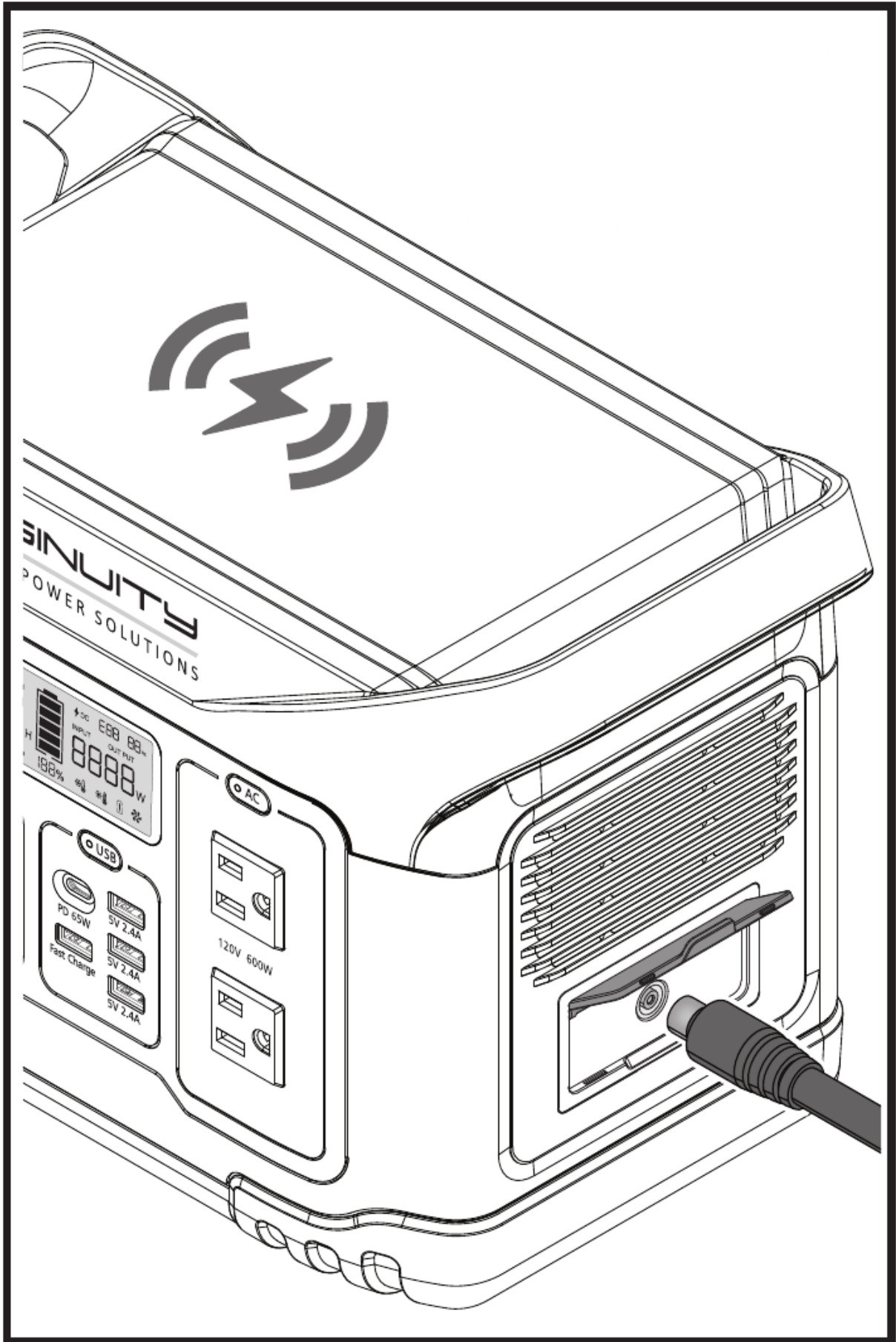
1. Plug the AC adapter cable into the power station's DC input port and then connect it to an AC power supply. NOTE: The input voltage must be between 90 – 260V AC. Voltage over this range will cause charging failure.
2. The LCD screen will display the remaining charge time and battery charge level.

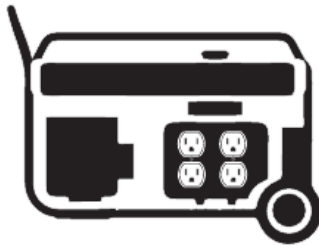
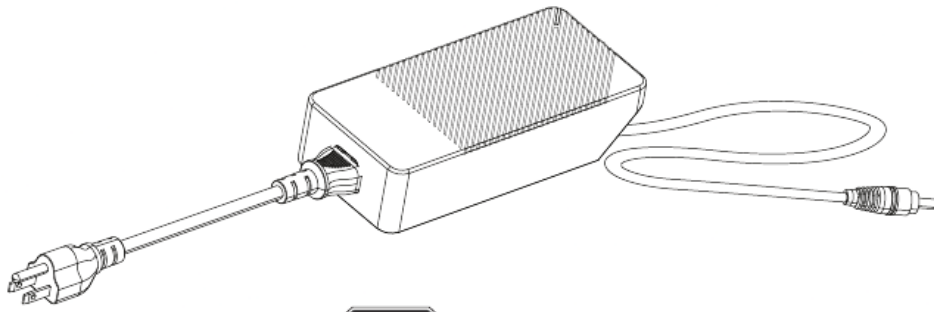
DC CHARGING:

1. Start the vehicle in a well-ventilated area that is a safe distance away from bystanders.
2. Plug the car charger cable into the power station's DC input port and then connect it to the vehicle's 12V DC outlet. NOTE: The provided car charger cable should only be used to charge the power station. Do not attempt to power other devices by using this cable.
3. The LCD screen will display the remaining charge time and battery charge level.

SOLAR CHARGING:

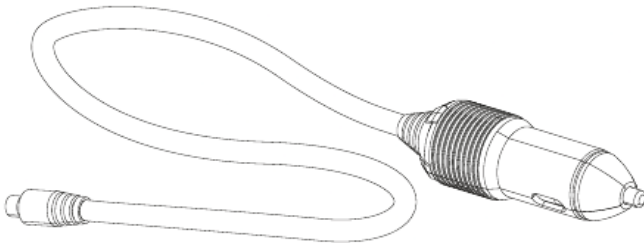
1. Plug the Mc4 adapter cable into the DC input port and then connect it to a solar panel or series of panels.
2. The LCD screen will display the remaining charge time and battery charge level.





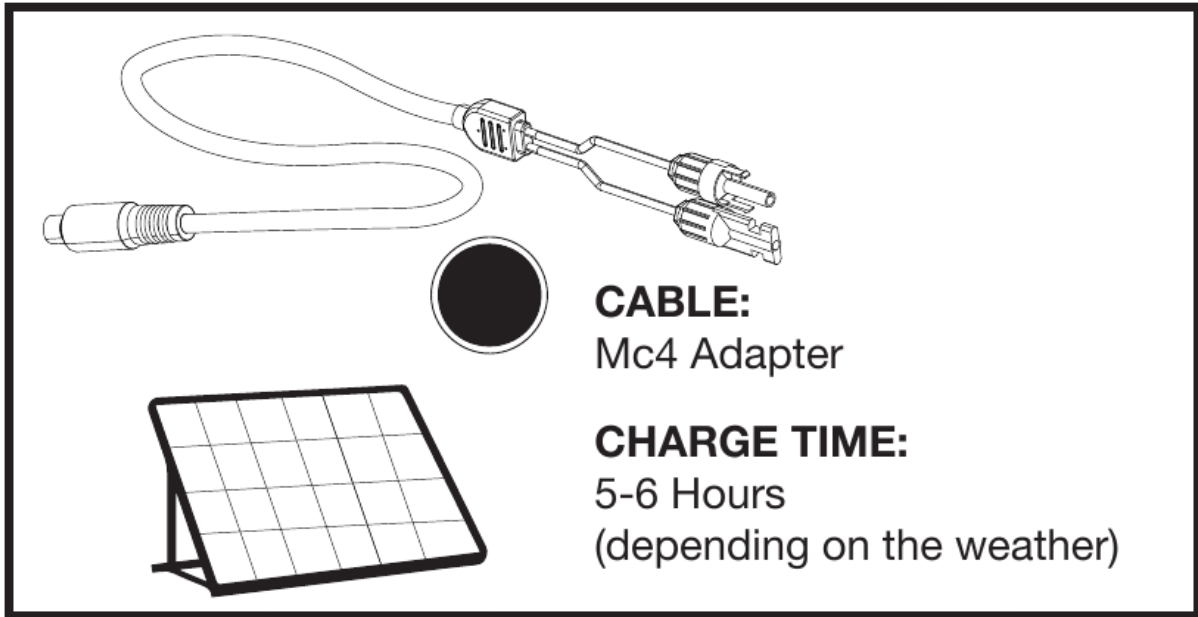
CABLE:
AC Adapter

CHARGE TIME:
5-6 Hours



CABLE:
Car Charger

CHARGE TIME:
8-9 Hours (12V) or
4-5 Hours (24V)



USING YOUR POWER STATION

Once your power station is charged or while your power station is charging, it can be used to power other devices. Routinely monitor the power station's battery charge level, discharge time, and load output during use.

TO TURN THE POWER STATION ON/OFF

1. Press and hold the power button for two seconds to turn the unit on. This will activate the LCD screen and allow the DC port, AC receptacles, USB ports and LED light to be used. NOTE: If the unit is inactive for five minutes, it will go into sleep mode and the LCD screen will turn off. Press any button to wake the unit. NOTE: If the unit is inactive for two hours, it will automatically turn off.
2. To turn the unit off, press and hold the power button again. NOTE: The unit can not be turned off while it is being charged.

TO USE THE LED LIGHT

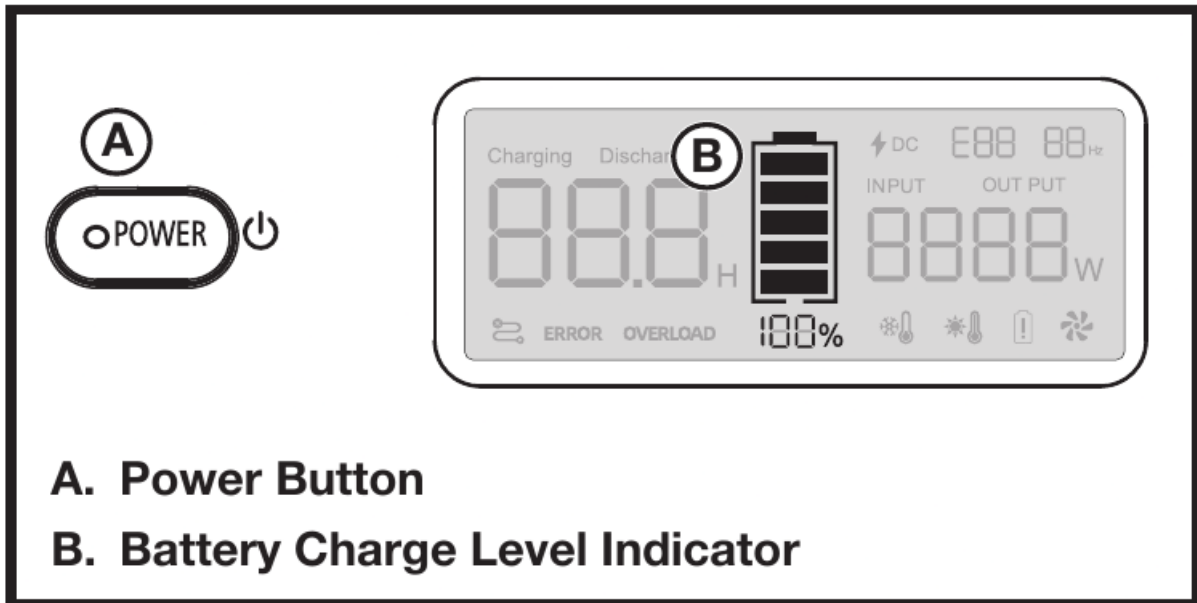
1. Turn the unit on and wait five seconds for the unit to initialize.
2. Press the LED button to turn the LED light on. Press the button again to cycle between Low, High, SOS, and Off.

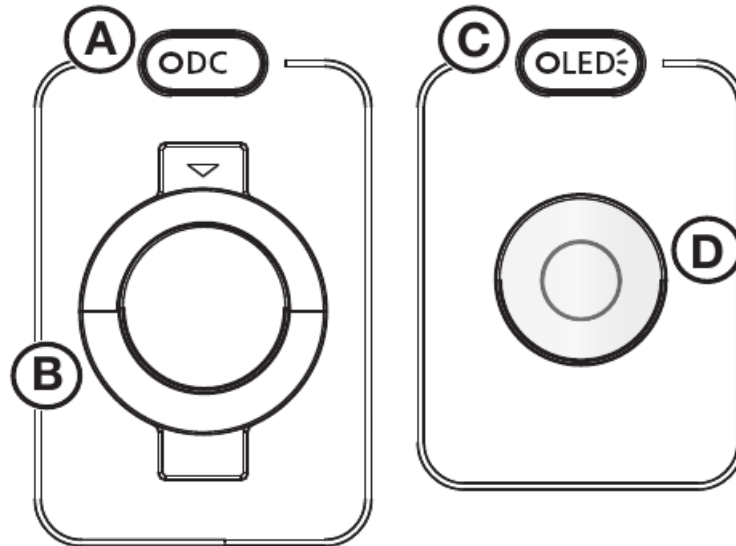
TO USE THE DC OUTPUT

1. Turn the unit on and wait five seconds for the unit to initialize.
2. Press and release the DC button to turn on DC power.
3. Plug the device you want to power or charge into the power station's DC output port.
4. Press and release the DC button to turn off DC power. DC power will automatically turn off in two hours if no load is detected.

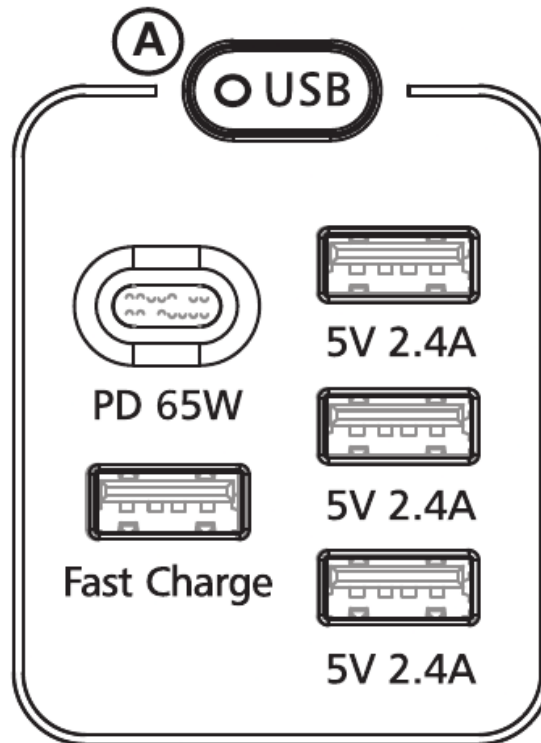
TO USE THE USB PORTS

1. Turn the unit on and wait five seconds for the unit to initialize.
2. Press and release the USB button to turn on USB power.
3. Plug the device or devices you want to power or charge into the power station's USB ports. NOTE: The fast charge USB ports can charge and power most compatible electronic devices, including tablets and smartphones.
4. Press and release the USB button to turn off USB power. USB power will automatically turn off in two hours if no load is detected.





- A. DC Button
- B. DC Output
- C. LED Button
- D. LED Light



- A. USB Button

USING YOUR POWER STATION

TO USE THE AC RECEPTACLE

1. Turn the unit on and wait five seconds for the unit to initialize.
2. Press and release the AC button to turn on AC power.
3. Plug the device or devices you want to power or charge into the power station's AC receptacles.
4. Press and release the AC button to turn off AC power. AC power will automatically turn off in one hour if no load is detected.

TO USE WIRELESS CHARGING

1. Turn the unit on and wait five seconds for the unit to initialize.
2. Place a compatible device on the wireless charging pad to begin charging. The pad activates automatically when a device is placed on top of the unit and deactivates when it is removed.

OVERLOAD RESET

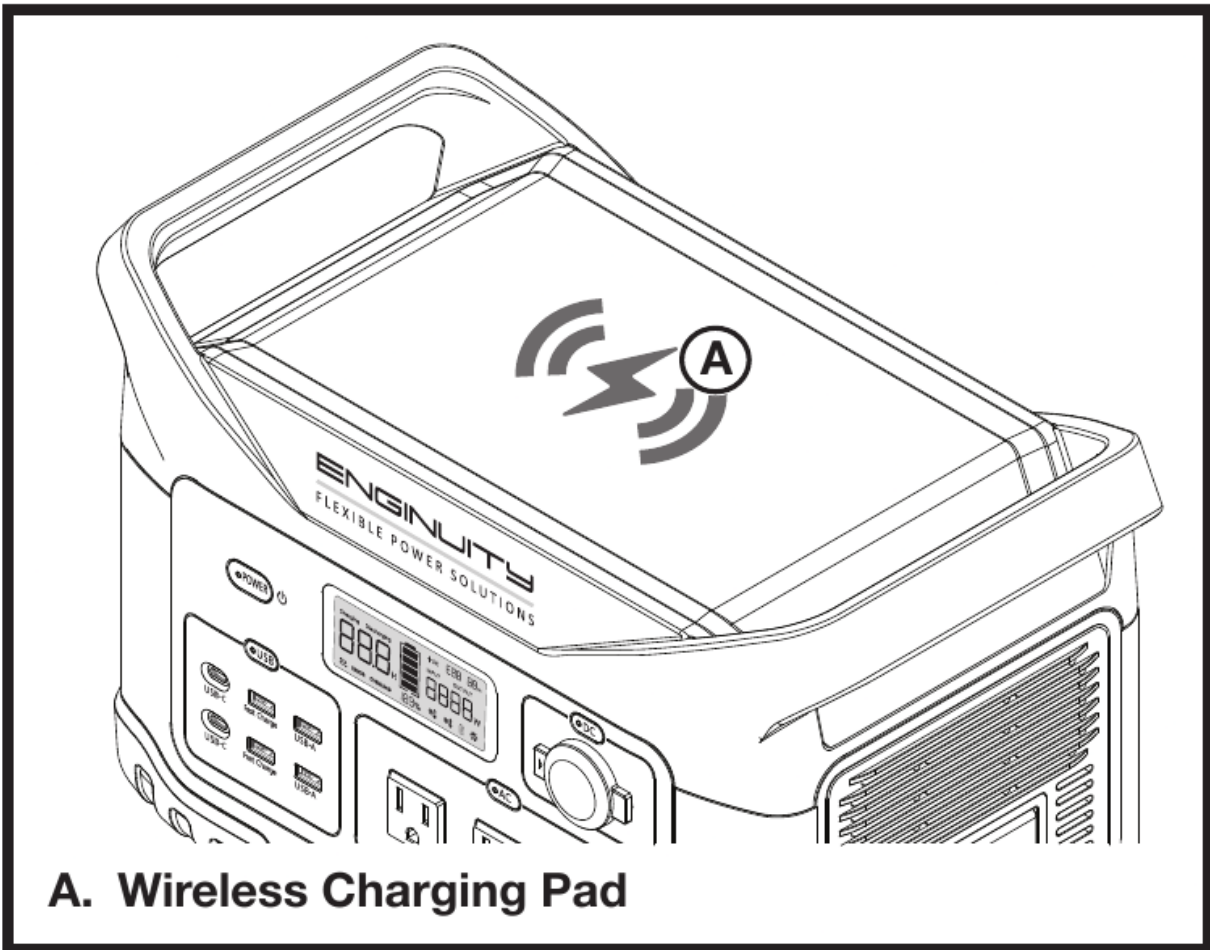
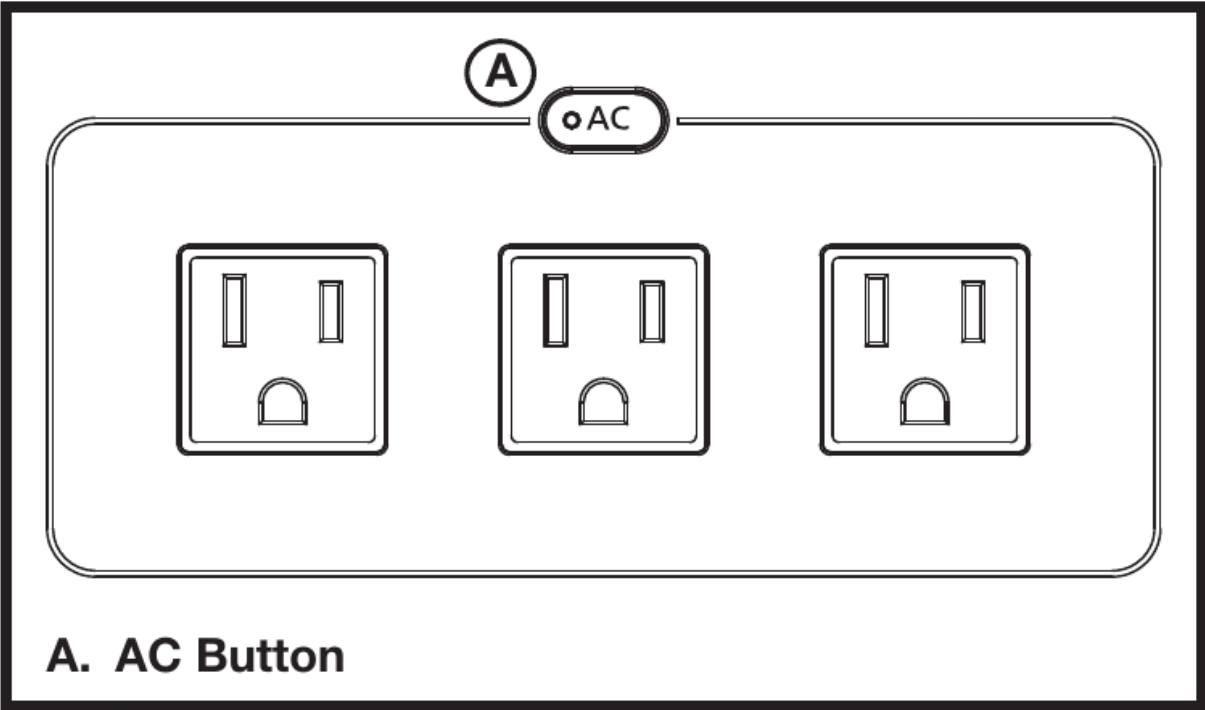
Do not overload the power station! Monitor the power station's output. If the unit is nearing overload, turn the power station off. Remove one or more connected devices to decrease the load and resume normal operation.

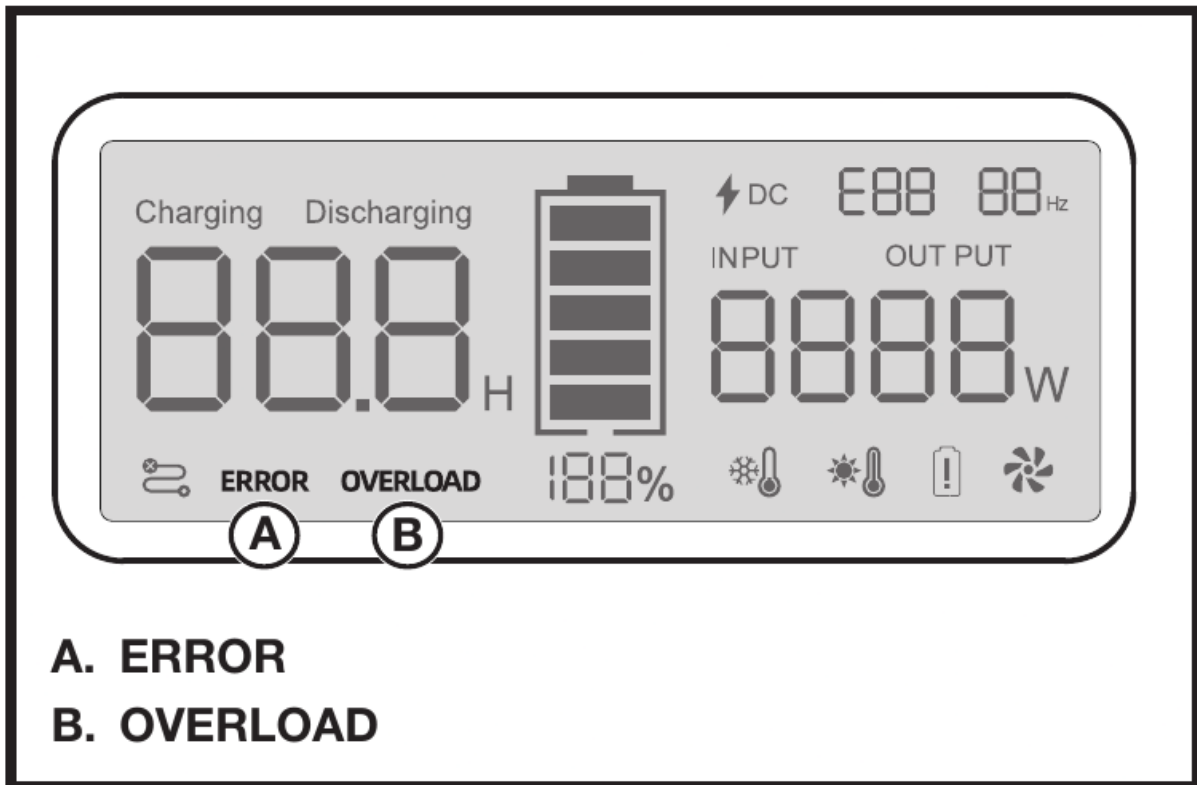
If the load is not reduced, the unit will reach an overload condition. To extend the life of the power station, avoid running the unit near capacity.

If the unit is overloaded or if there is a short circuit in a connected device, the ERROR and/or OVERLOAD icons will appear in the display and the power station will automatically stop discharging.

To restore electrical output:

1. Remove all connected devices and turn the unit off.
2. Turn the unit on and wait five seconds for the unit to initialize.
3. Check the power requirements for the devices you want to power or charge. Ensure that the power requirements do not exceed the unit's load capacity.
4. Connect and charge devices as previously described.





TROUBLESHOOTING AND ERRORS

ERROR DESCRIPTION	PROBLEM	SOLUTION
E00 Icons flash Alarm beeps 3 times	Low Temperature (While Charging)	Remove loads and/or disconnect cables (if applicable). Allow product to warm to normal operating temperature.
E01 Icons flash Alarm beeps 3 times	High Temperature (While Charging)	Remove loads and/or disconnect cables (if applicable). Allow product to cool to normal operating temperature.
E09 Icons flash Alarm beeps 3 times	Low Temperature (While Discharging)	Remove loads and allow product to warm to normal operating temperature.
E10 Icons flash Alarm beeps 3 times Fan stops working	High Temperature (While Discharging)	Remove loads and allow the product to cool to normal operating temperature.
E11 Icons flash Alarm beeps 3 times Fan stops working	Battery Charge Level is Low	Remove loads and connect the unit to a power source for charging.
E12	Battery Charge Level is Low And the Unit	

		Won't Discharge In Low Temperatures	Remove loads and connect the unit to a power source for charging. Turn off the unit. Remove all connected devices. Wait 5 seconds, turn the unit on, and activate AC power. Verify power requirements for your device(s) do not exceed the unit's load capacity.
E16	Icons flash Alarm beeps 3 times	Overload Detected At AC Outlets	Verify that the vents on the side of the unit are not blocked. Remove loads and allow the product to cool to normal operating temperature. Turn off the unit. Remove all connected devices. Check AC devices for short circuit. Do not connect damaged equipment to the power station.
E17	Icons flash Alarm beeps 3 times	High Temperature Warning	Turn off the unit. Remove all connected devices. Check AC devices for short circuit. Do not connect damaged equipment to the power station.
E22	Icons flash Alarm beeps 3 times	Short Circuit Detected At AC Outlets	Contact customer support
E24	Icons flash Alarm beeps 3 times	Abnormal Communication Between Main Controller and Inverter	Turn off the unit. Remove all connected devices. Wait 5 seconds, turn the unit on, and activate DC power. Verify power requirements for your device(s) do not exceed the unit's load capacity.
E33	Icons flash Alarm beeps 3 times	Over-current/Overload Detected At DC Output	Turn off the unit. Remove all connected devices. Check DC device for short circuit. Do not connect damaged equipment to the power station.
E35	Icons flash Alarm beeps 3 times	Short Circuit Detected At DC Output	Turn off the unit. Remove all connected devices. Check USB device(s) for short circuit. Do not connect damaged equipment to the power station.
E45	Icon flashes Unusual discharge time Alarm beeps 3 times	Short Circuit/Over-current Detected At USB ports	Turn off the unit. Remove all connected devices.
E49	Icon flashes Unusual	Short Circuit/Over-current Detected At	Turn off the unit. Remove all connected devices.

	discharge time Alarm beeps 3 times	“Fast Charge” USB Port	Check USB device for short circuit. Do not connect damaged equipment to the power station.
E77		Battery Surface Temperature Exceeds 140°F (60°C) AC Output is Reduced to 50% of the Unit’s Max Rating.	Reduce or remove loads and allow product to cool to normal operating temperature.
E78		Battery Surface Temperature Exceeds 147°F (64°C) AC and DC Power is Turned Off.	Remove loads and allow the product to cool to normal operating temperature.
E85	Icons flash Alarm beeps 3 times	Battery Charge Level is Below 5% AC Power is Turned Off	Remove loads and connect the unit to a power source for charging. AC power will be available once charge level exceeds 7%.
E88		Initial Voltage Output Reduced Due to Cold Temperature	Remove loads and only connect devices that are rated below 65% of the power station’s load capacity

MAINTAINING AND STORING THE UNIT

GENERAL MAINTENANCE

- Routinely clean the unit’s exterior and vents. Turn the unit off. Use a clean cloth or soft bristle brush to remove dirt, oil, grease, etc. Do not use water or solvents and never submerge the unit.
- Inspect the unit for broken parts, damaged ports/ receptacles, loose screws, etc. NEVER disassemble or attempt to service the power station. If the unit is damaged, contact customer service for assistance.