

FREQUENTLY ASKED QUESTIONS

Q. If storing my Power Station for long periods, what should I do to look after my battery's health?

A lithium battery can be stored at any state of charge due to a very low rate of discharge. It is recommended that if storing for long periods, the battery be charged to a minimum of 70% before switching off the Master Switch and storing.

NOTE: The battery will not go into storage mode if:

- There are loads connected to it.
- It is being charged

Q. Is my Power Station Water Proof ?

The Power Station has been designed to be as resistant to moisture and dust as possible, though it is not waterproof.

Do not leave exposed to rain or weather, and do not submerge.

Q. Can I Jump Start with my Power Station ?

It is not recommended jumpstarting with the Power Station.

The information in this document is subject to change without prior notice.



Power Station
User Manual

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Congratulations on your new POWER STATION



POWER STATION

IMPORTANT SAFETY INSTRUCTIONS

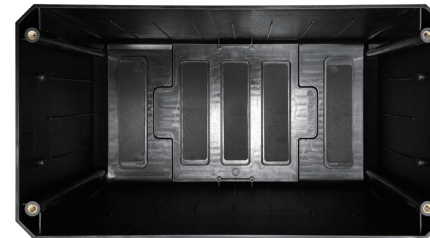
- For charging all types of 12V batteries
(Meet the maximum battery size: 410 (L) X202 (W) X254 (H) mm)
- Never attempt to recharge non-rechargeable batteries.
- The lid of the battery box must remain shut at all times whilst charging a battery or powering a device from an outlet.
- Do not allow any metal objects to fall into the battery box or enter any of the ports.
- Never insert anything other than a compatible electrical plug into any of the ports on the battery box.
- Ensure that the battery box is shut and the screws are tight before powering any devices.
- Do not try to jumpstart a vehicle with this battery box if using an lithium battery

OVERVIEW



GETTING STARTED

Step 1: The non-slip surface of silicone pads pre-installed



Note: the pads may be washed to regain stickiness.

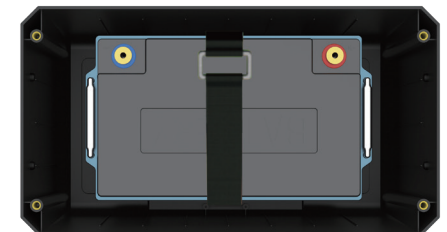
Step 2: There are two ropes on the side that can support up to 80kg and are detachable



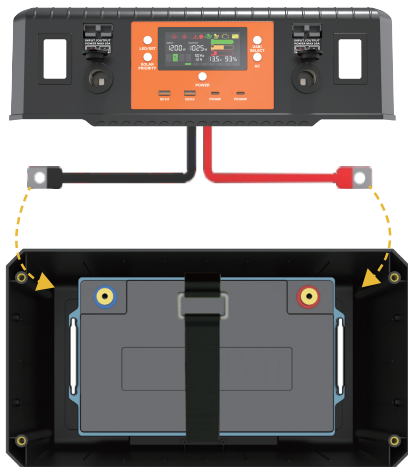
Step 3: Lower your battery into the battery box base carefully, locating it as centrally as possible on the non-slip pads.



Step 4: Secure the battery in place by tightening the velcro strap over the battery.



Step 5: Install the battery cables onto the terminal posts of the battery. Ensure the red cable is connected to the positive (+) terminal, the black cable connected to the negative (-) terminal. Tighten firmly but be sure not to over tighten the battery terminals.



Step 6: Tuck cables in under the battery box lid, lowering the lid carefully onto the box - ensuring the lid is correctly oriented.



Step 7: Install the 4 provided screws to fasten the lid to the base, being sure not to over tighten with the supplied allen key



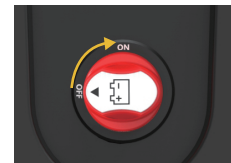
Step 8: Insert the rubber plug into the lid



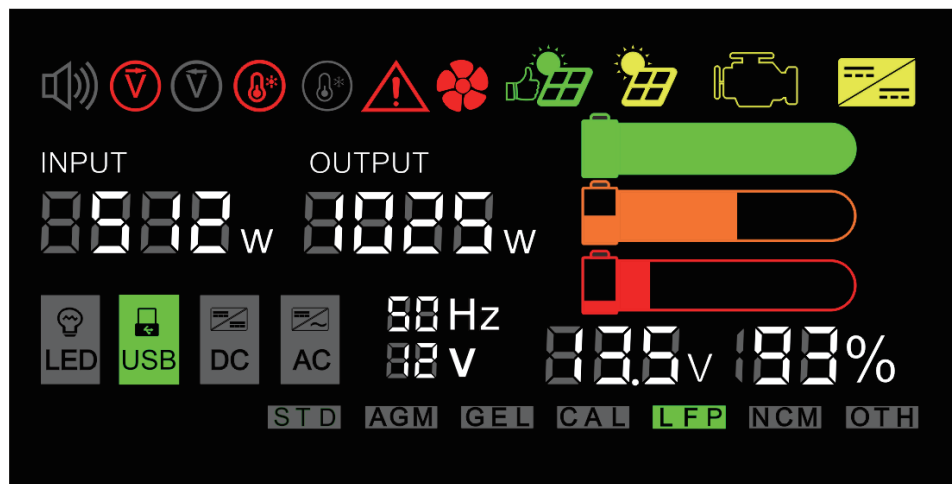
SWITCHES

The Master Switch

The master switch disconnect everything. Turning it off is a quick way to disconnect all devices to ensure your battery is not being drained



LED SCREEN



	Indicator	Parameter
Battery High Voltage :		>16V
Charger High Voltage:	INPUT	>33V
Inverter Over Voltage :		>19.5V±0.5V
Inverter Under Voltage:		>16V±0.5V
Charger Over Heating:	INPUT	>80℃
Inverter Over Heating:		>105℃
Inverter Overload Short Circuit:		≥1200W

	Indicator	Parameter
Cooling Fan Short Circuit :		>1.5A
USB Output Short Circuit:		>21A
LED Output Short Circuit :		>2.5A
Solar Charging Energy:		
Solar Charging Input:		
ALT Charging Input:		
Charging Input:		
Frequency:		
Input/Output Voltage:		
battery capacity level:		
AC Output:		
DC Output:		
USB Output:		
LED Output:		
Cooling Fan:		
Input Power:		
Output Power:		
Battery Type :		

OPERATING INSTRUCTIONS



1. Press the **POWER** button for 3 seconds to turn the display screen on/off. When the screen turns off, The Load outputs like INVERTER AC/USB/LED Lights will TURN OFF.
2. Setting Operation:
 - 2.1 Press the **LED** button, the LED indicator light turn on/off.
 - 2.2 Press the **USB** button, The USB indicator will light up means USB and Type-C outputs turn on/off
 - 2.3 Press the **AC** button, The AC indicator and AC output turn on/off
3. Press the Solar Priority button for 3S, The Solar Priority indicator will light up means the solar charging prioritized . To disable this function, press the button again for 3S, and the indicator will turn off.
4. Press the **LED/SET** button 3S to enter or exit Settings Mode.
5. Operations:
 - 5.1 Press the **SELECT** button to choose battery type, solar priority, or buzzer alarm on/off
 - 5.2 Press the **SELECT** button to confirm the current selection and automatically enter to the next setting option.

CONNECTIONS

▶ OUTPUTS

2 X 12V POWER SOCKET OUTPUTS

- Maximum 10A output per socket



2 X 12V Power Socket Outputs

2 x Type-C 2 x QC3.0

- Type-C PD100W
(5V3A, 9V3A, 12V3A, 15V3A, 20V5A)
- Type-C PD30W
(5V3A, 9V3A, 12V2.5A)
- QC3.0x2
(5V2.5A, 9V2A, 12V1.5A)



2 x Type-C / 2 x QC3.0

Benefits of Quick Charge ⚡

When paired with compatible devices, a Quick Charge-enabled charger delivers more power, allowing the connected device to charge faster. As one of the most widely used of the fast charging technologies, Quick Charge is already in many of your favorite smartphones. If your smartphone is Quick Charge 3.0-compatible, you can charge up to 80% in just 35 minutes.

To future-proof your chargers, each new Quick Charge generation is backwards compatible, meaning it will work with the generations that came before.

ANDERSON STYLE PLUGS



- Input / Output Capable.
- 2x anderson plugs are connected in a bank of anderson plugs with a maximum input/output of 50A each bank.

WARNING:

1. Do not plug in multiple chargers as inputs.
2. Do not use an external charger while the DC-DC Charger is operating.
3. Exceeding 50A current rating will trigger the safety breaker. Safety breaker will auto-reset in time.

NOTE: THE 2 ANDERSON PLUGS INDICATED CANNOT EXCEED A TOTAL OF 50 AMPS PER BANK OF ANDERSON PLUGS

BUILT IN INVERTER



SPECIFICATION

	1000W	1500W
Input voltage	DC12.5V	
Input voltage range	DC11-15V	
Output voltage	AC220V±10%; AC110V±10%	
Output frequency	50HZ±1HZ; 60HZ±1HZ	
Rated power	1000W	1500W
Maximum power	1100W	1650W
Peak power	2000W	3000W
Output wave form	pure sine wave	
Standby Type	≤1.5mA	
Conversion efficiency	≥88%	
Protection function		
Low voltage protection	DC9.5V±10.5V	
Low voltage recovery	DC11.5V±10.5V	
High voltage protection	DC16V±0.5V	
High voltage recovery	DC15.5V±10.5V	
Overload protection	≥ 1200W ≤ 1500W, turn off within 5 seconds	≥ 1800W ≤ 2200W, turn off within 5 seconds
Overload protection	≥ 1500W ≤ 2000W, turn off within 200mS	≥ 2200W ≤ 3000W, turn off within 200mS
Environmental condition		
Over Temperature Protection	105°C±5°C	
Heat dissipation method	Cooling fan starts at a temperature of 50 °C± 5 °C	
Operation temperature	-10°C-45°C	
Working humidity	10%-90%RH	
Storage temperature	-20°C-85°C	
Storage humidity	5%-95%RH	
Rated aging time (12.5V)	1000W/4H(cold+hot machine)	
PCB maximum temperature	≦ 120°C	

BUILT IN DCDC CHARGER

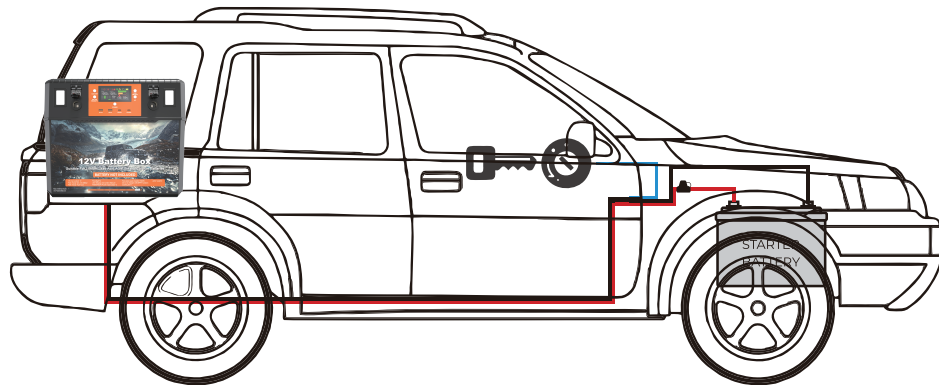
CONNECTING TO ALTERNATOR INPUT

The includes a built-in DCDC Charger suitable for charging from a vehicle alternator.

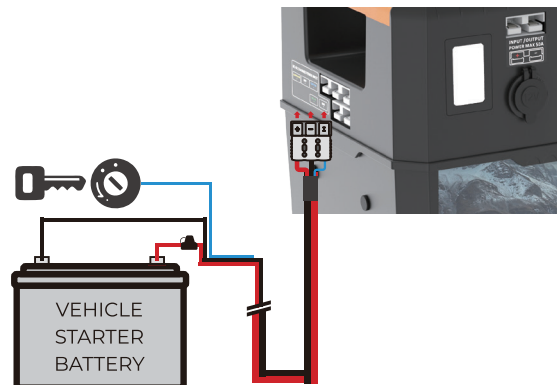
The easiest way to connect the Power Station to your vehicle is by using the Plug & Play Wiring Kit (sold separately).

The triple Anderson style connector fitted to the Power Station interfaces with the Plug & Play Wiring Kit, providing a simple, quick release vehicle charging solution. This triple connector and cable provides alternator power to the DCDC on the Power Station, along with an Ignition Source for charging in vehicles that are fitted with Smart or Temperature Compensating Alternator.

For more information on installing a Dual Battery Wiring Kit and Ignition Wire, please contact customer service



Wiring Kit
Sold Separately

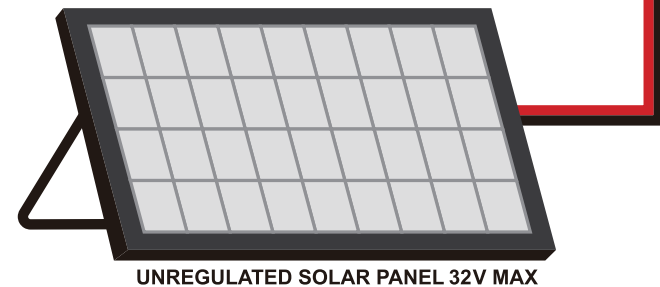


CONNECTING TO SOLAR PANEL

Built-in DC-DC Charger with a MPPT regulator suitable for charging from solar panels, to connect your solar panel to the regulator simply plug it in via the anderson plugs on your battery box.

Note: for charging from unregulated solar panels.

- Your solar panel open circuit voltage must not exceed 32 VoC, the voltage of your panel can generally be found on the sticker on the rear of your solar panel
- If your solar panel is fitted with a built-in regulator, you will need to bypass the regulator port. Alternatively you can connect your regulated solar panel to any of the 4 in/out anderson style connectors.



► INPUTS

ALTERNATOR

1 X TRIPLE ANDERSON STYLE PLUG

- 9-32V DC Starter Battery Input (+/-)
- Ignition source connection

MPPT SOLAR

1 X (50A) ANDERSON STYLE PLUG

- Minimum Solar Input Voltage: 9V DC
- Maximum Solar Input Voltage: 32V DC
- Maximum Solar Input Current: 40A

Unregulated Solar Input - utilises in built DCDC MPPT regulator
Not suitable for regulated solar input, connect to a standard in/out connector when using an external or panel-mounted solar controller/regulator.

Operating Parameters					
	25A DCDC Model			40A DCDC Model	
Max Charging Current	25Amps			40Amps	
Vehicle Input Voltage	11.5-32V				
Solar Input Voltage	9-32V				
Recommended Fuse Size	30A			50A	
Standby Type	<10mA				
Suitable Battery Types	Standard Lead Acid,Gel,AGM,Calcium&LiFePO4				
Charge Control					
Charge Type	3 Stage				
Charging Profile	STD	GEL	AGM	Calicum	LifePo4
Maximum Voltage	14.4V	14.1V	14.1V	15.3V	14.4V
Float Voltage	13.6V	13.6V	13.6V	13.6V	

WARNING:

1. Do not exceed the Maximum Voltage of 32V DC
2. Do not exceed the Maximum Input Current of 40A



CONNECTING TO EXTERNAL CHARGERS

The may be charged in a number of ways:

- Connecting an AC charger to any of the in/out Anderson style connectors.
- Connecting alternator power to optional DCDC Charger in a vehicle.
- Connecting an unregulated solar panel input to optional DCDC Charger.

Warning:

- Connecting multiple chargers to the battery at any one time is not recommended.

