

## FREQUENTLY ASKED QUESTIONS

**Q. If storing my iTECHWORLD GOFURTHER 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 iTECHWORLD GOFURTHER Water Proof ?**

The iTECHWORLD GOFURTHER 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 iTECHWORLD GOFURTHER?**

It is not recommended jumpstarting with the iTECHWORLD GOFURTHER

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

# iTECHWORLD GOFURTHER Power Station User Manual



WITH DCDC CHARGER



WITHOUT DCDC CHARGER

## TABLE OF CONTENTS

INTRODUCTION .....	1
IMPORTANT SAFETY INSTRUCTIONS .....	1
OVERVIEW .....	2
GETTING STARTED .....	3
OPTIONAL ACCESSORIES .....	5
MOUNTING TRAY (OPTIONAL) .....	5
INVERTER CABLES (OPTIONAL) .....	6
SWITCHES .....	6
LCD SCREEN .....	6
CONNECTIONS .....	7
OUTPUTS .....	7
INPUTS/OUTPUTS .....	7
INPUTS .....	9
CONNECTING TO EXTERNAL CHARGERS .....	10
TYPICAL DIAGRAMS .....	11
CONNECTING DCDC CHARGER .....	12
CONNECTING TO ALTERNATOR INPUT .....	13
CONNECTING TO UNREGULATED SOLAR .....	13
FREQUENTLY ASKED QUESTIONS .....	14

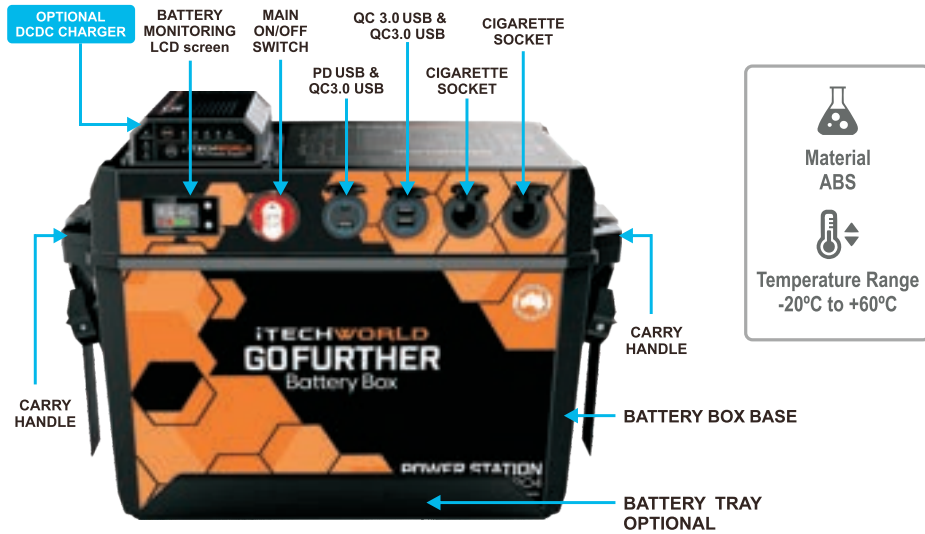
# Congratulations on your new GOFURTHER



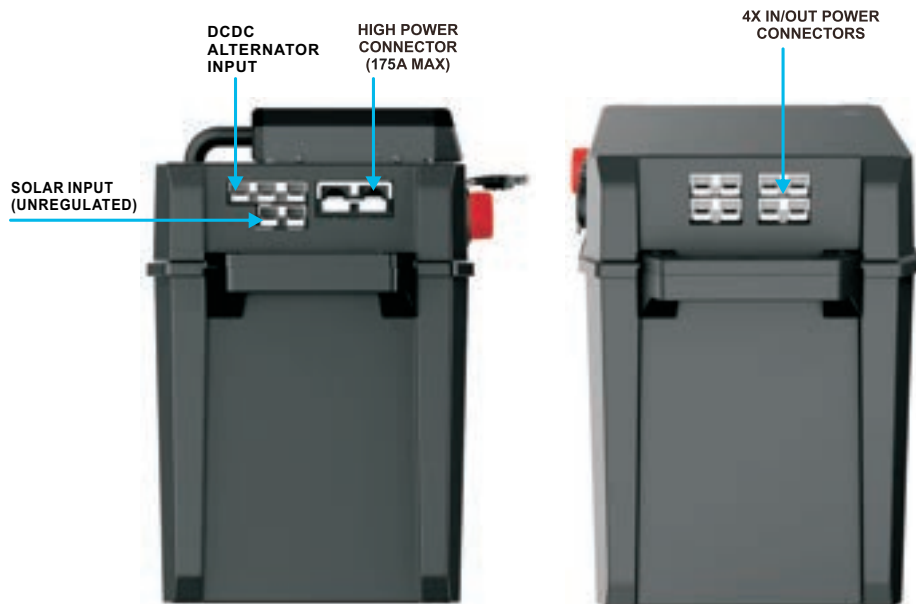
## IMPORTANT SAFETY INSTRUCTIONS

- For charging 12V **iTECHWORLD** lithium LiFePO4 batteries.
- 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 **iTECHWORLD** lithium battery

# OVERVIEW



FRONT



SIDE

SIDE

# GETTING STARTED

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



Note: the pads may be washed to regain stickiness.

**Step 2:** Lower your battery into the battery box base carefully, locating it as centrally as possible on the non-slip pads.



**Step 3:** Secure the battery in place by tightening the velcro strap over the battery.



**Step 4:** 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 5:** Tuck cables in under the battery box lid, lowering the lid carefully onto the box - ensuring the lid is correctly oriented.



**Step 6:** Install the 4 provided screws to fasten the lid to the base, being sure not to over tighten with the supplied allen key.



**Step 7 ATTENTION FOR DCDC CHARGER MODELS:** Check your battery type. For example : select LifePO4 as the battery type on the DCDC charger by holding the MODE button for 2 seconds until the battery type light starts flashing. When this occurs, your selection is saved.



## OPTIONAL ACCESSORIES

### MOUNTING TRAY (OPTIONAL)

**Step 1:**

Confirm install location of tray, drilling any required holes.

Install the strap under the tray, sliding the strap into the slots either side.

Ensure strap is oriented correctly so that the hooks face toward the Power Station when installed.

Securely affix the tray in position using bolts or screws, whichever is applicable.

Ensure that washers are used when installing the tray, to avoid damage.

Note: We do not provide the screws or bolts for this installation.



**Step 2:** Ensure straps are laying outside the tray before lowering the battery box carefully onto the tray. Attach each strap hook to the corresponding slot in the Power Station.

**Step 3:** For ease of tightening, place thumbs in each strap loop, pushing firmly downwards. The strap should tighten and hold the Power Station firmly in place.

To release, depress the buckle and pull the strap to loosen.





## Inverter Cables (Optional)

**iTECHWORLD** Inverter leads have been designed to allow you to easily connect a high powered inverter to the battery box. When it comes to Inverter cables, there is no substitute for quality and these **iTECHWORLD** Inverter Cables have been designed to work flawlessly and to provide a high current flow to your inverter this output is rated for 175A max output, please do not exceed it.



## SWITCHES

### The Master Switch

The master switch disconnects everything (except DCDC Charger). Turning it off is a quick way to disconnect all devices to ensure your battery is not being drained.

Note: The DCDC Charger + Solar Regulator still can charge the internal battery while the Master Switch is in the OFF position.



## LCD SCREEN

The **iTECHWORLD GOFURTHER** Monitor has a display and two buttons. The screen is used to monitor the state and condition of the battery. The display features the following:

- Battery type
- Battery pack voltage
- Battery Temperature
- Total Capacity of Battery
- Mutable Low Battery Alarm
- Battery Protection Alarms

**FOR DETAIL OPERATION REFER TO THE MANUAL**



## CONNECTIONS

### ▶ OUTPUTS

#### 2 X CIGARETTE SOCKET OUTPUTS

- Maximum 10A output per socket



2 x Cigarette Socket Outputs

#### 2 X DUAL USB / QC3.0 OUTPUTS

- PD+QC 3.0USB
- 2 x Quick Charge QC 3.0 Ultra High Powered USB Outputs



2 x Dual USB / QC3.0 Outputs

#### 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.

### ▶ INPUTS/OUTPUTS

#### 1 X (175A) ANDERSON STYLE PLUG

1 x (175A) Anderson Style Plug on the left side

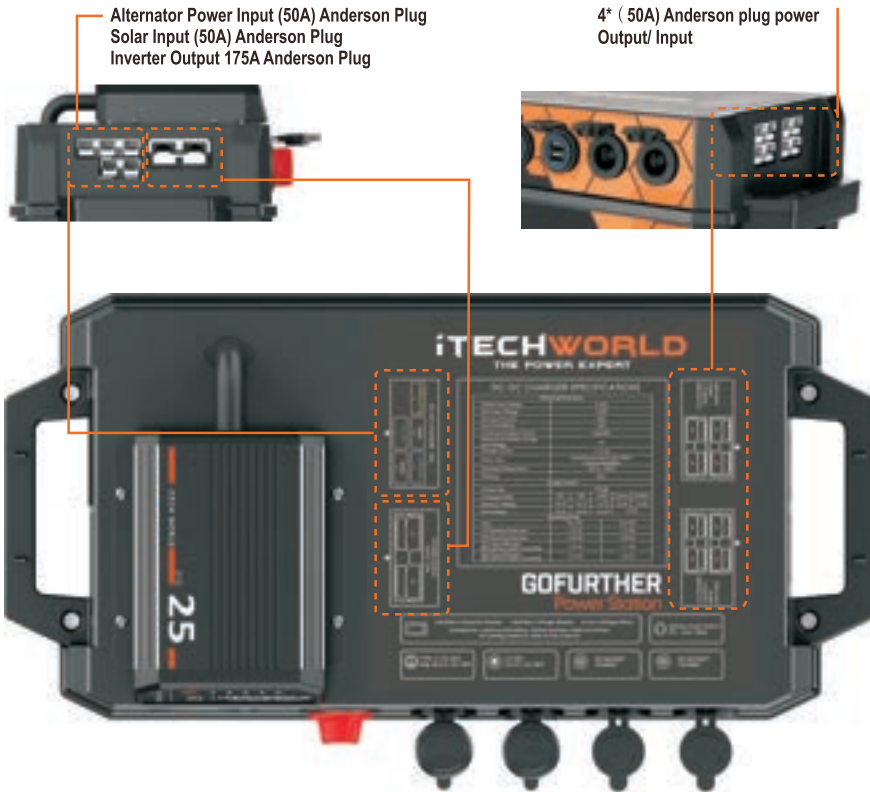
- High Current Inverter Output
- Connected directly to battery



#### WARNING:

1. Master switch Will disconnect the battery from this connector.
2. This output is NOT Fused or Short Circuit Protected.
3. Check battery specifications and compatibility with high current draw before using jump start connector
4. Lithium batteries should not be used for jump starting.

## ANDERSON STYLE PLUGS



- Input / Output Capable.
- 4x anderson plugs are connected in a bank of 2x anderson plugs with a maximum input/output of 50A each bank. (one bank is 2 anderson plugs on left and other is right)

### 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 4 ANDERSON PLUGS INDICATED CANNOT EXCEED A TOTAL OF 50 AMPS PER BANK OF 2X ANDERSON PLUGS**

## ▶ 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: 25A

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.

### WARNING:

1. Do not exceed the Maximum Voltage of 32V DC
2. Do not exceed the Maximum Input Current of 25A



## CONNECTING TO EXTERNAL CHARGERS

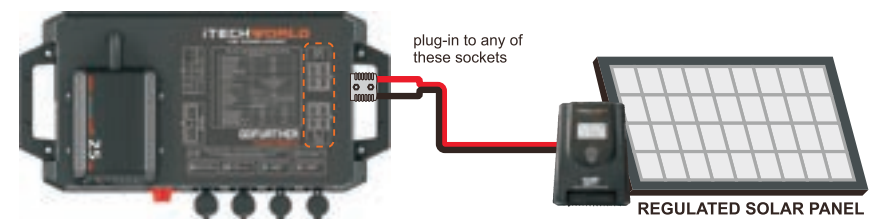
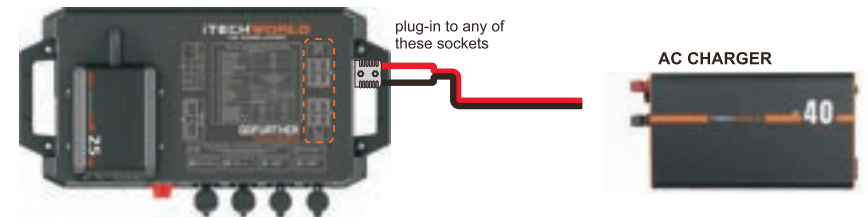
The **iTECHWORLD GOFURTHER** may be charged in a number of ways:

- Connecting an AC charger to any of the in/out Anderson style connectors.
- Connecting a solar panel with regulator/controller 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.
- Do not connect an unregulated solar panel directly to the battery via any of the in/out connectors.

## TYPICAL DIAGRAMS



## CONNECTING DCDC CHARGER

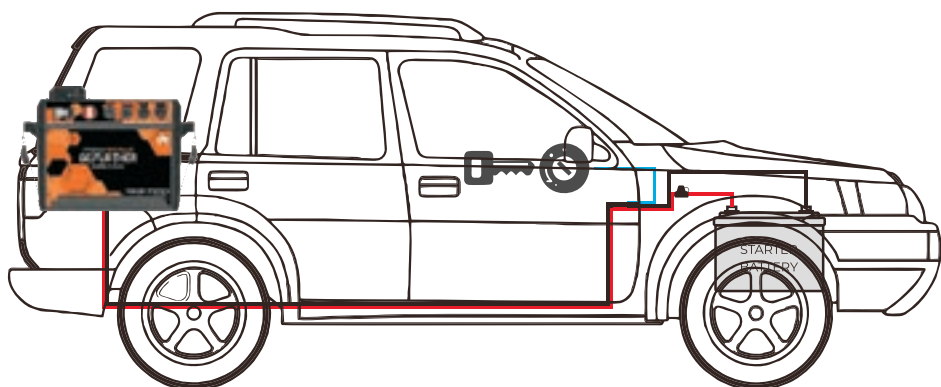
### CONNECTING TO ALTERNATOR INPUT

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

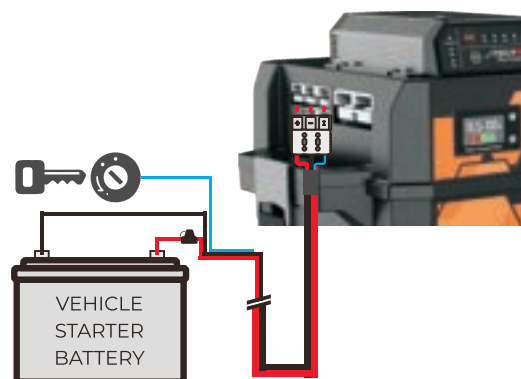
The easiest way to connect the Power Station to your vehicle is by using the **iTECHWORLD** Plug & Play Wiring Kit (sold separately).

The triple Anderson style connector fitted to the Power Station interfaces with the **iTECHWORLD** 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 visit [www.iTechworld.com.au/pages/HelpCentre](http://www.iTechworld.com.au/pages/HelpCentre)



**Wiring Kit**  
Sold Separately

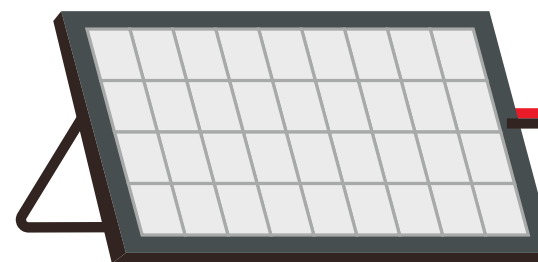


### CONNECTING TO UNREGULATED SOLAR

**iTECHWORLD GOFURTHER** includes a built-in DC-DC Charger with a MPPT regulator suitable for charging from unregulated solar panels. To connect your solar panel to the regulator simply plug it in via the anderson style plug on your battery box.

#### Note:

- 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.



UNREGULATED SOLAR PANEL 32V MAX