USER GUIDE

GOFURTHER/25/40

PREMIUM BATTERY BOX

iTECHWORLD

THE POWER EXPERT

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OVERVIEW

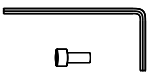
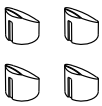
The iTechworld GoFurther Premium Battery Box is the perfect solution for turning a battery into a portable power station, allowing you to wave goodbye to cumbersome boxes or problematic installs. Designed to get you up and running without the need for electrical expertise, the GoFurther Premium Battery Box is everything you need to begin your adventure!

After years of Aussie design and development, we've finally reached our best battery box yet. It is made of heavy-duty ABS, designed for durability and reliability. It includes thick copper wiring to fortify the pre-fused connections and increase its longevity, making your GoFurther Premium Battery Box the ideal dual-battery solution. The battery box is compatible with various battery types, such as Lithium LiFePO4, Lead Acid, Gel, AGM and Calcium.

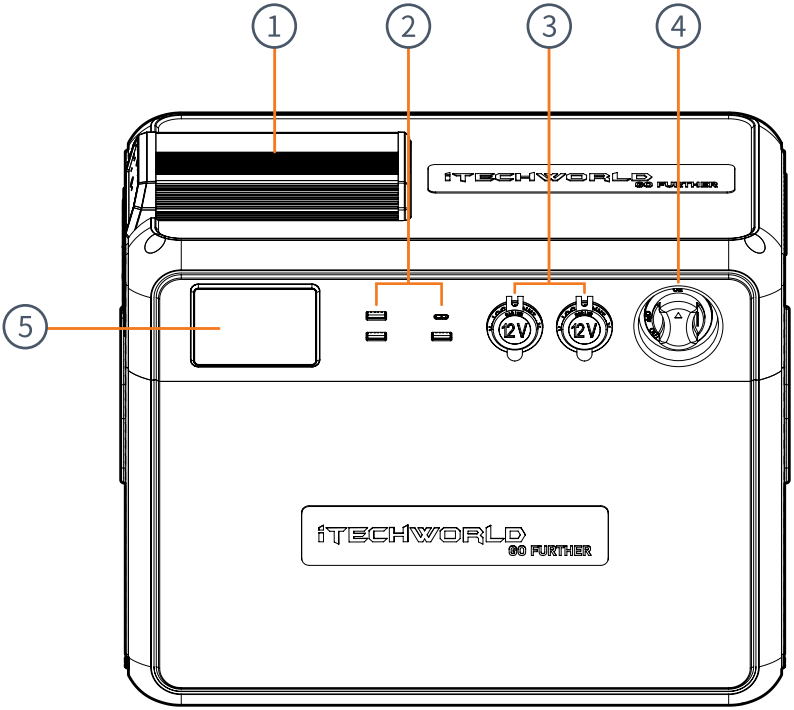
KEY FEATURES

- Fits any deep-cycle battery up to 360 x 170 x 234mm (LxWxH)
- Advanced battery monitor
- Master isolation switch
- 2 x 12V 15A cigarette lighter outputs
- 3 x fast charge USB outputs
- 30W USB-C output
- In/Out 175A Anderson plug
- 4 x In/Out 50A Anderson plugs
- Various output fuses
- Tough ABS material

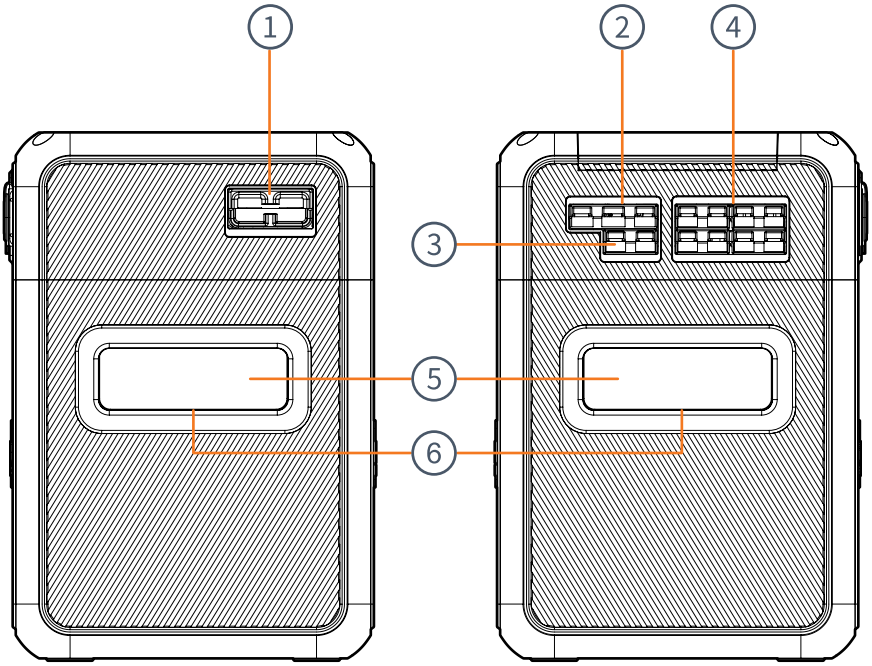
Package Contents

						
1 x GoFurther Battery Box	User Guide	Allen Key and a Bolt	Separator Kit	Non-slip Pads	Strap	4 x Grommets

UNIT DIAGRAM



1. OPTIONAL DCDC CHARGER
2. USB/USB-C OUTPUTS
3. CIGARETTE LIGHTER OUTPUTS
4. MASTER ISOLATION SWITCH
5. ADVANCED BATTERY MONITOR



1 **IN/OUT 175A ANDERSON**

2 **DCDC ALTERNATOR INPUT**

3 **DCDC SOLAR INPUT**

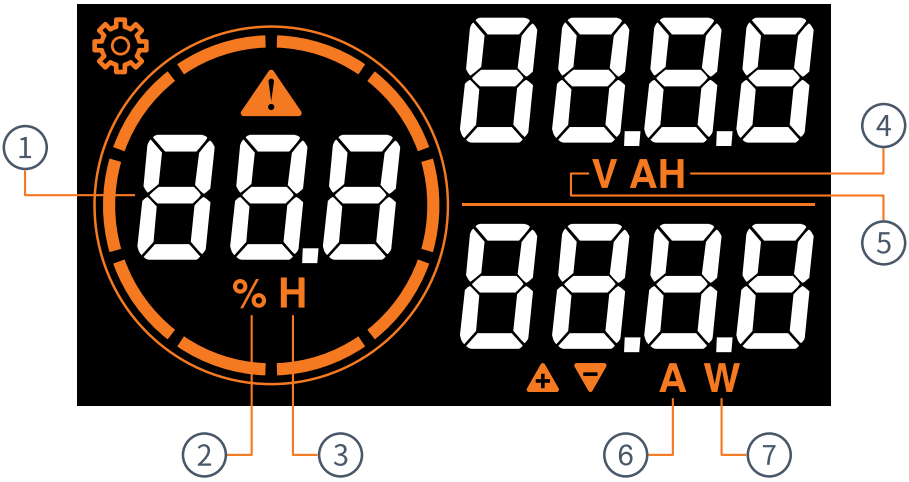
DCDC MODELS ONLY

4 **IN/OUT 50A ANDERSONS**

5 **CARRY HANDLES**

6 **MOUNTING BRACKETS**

GOFURTHER TRAY
SOLD SEPARATELY



1. **STATE OF CHARGE**
2. **PERCENTAGE**
3. **TIME REMAINING**
4. **Ah REMAINING**
5. **VOLTAGE**
6. **AMPERAGE**
7. **WATTAGE**

DCDC Install Kit

GoFurther Inverter Cable

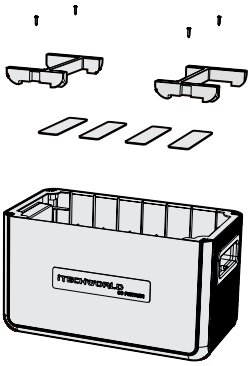
GoFurther Tray

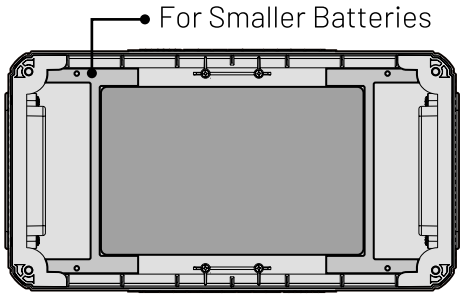
OPERATION

BATTERY CONFIGURATIONS

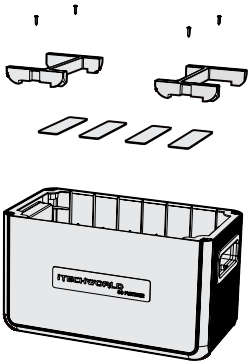
Depending on the size of your battery, you're able to use your GoFurther Battery Box in different configurations, as detailed below:

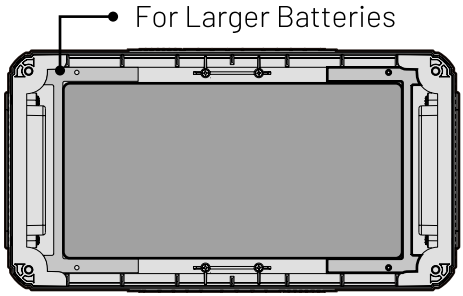
- For smaller batteries, use configuration 1, as detailed in the diagram below. The inner dimensions with this separator are as follows:
  256 x 164 x 234mm (LxWxH)





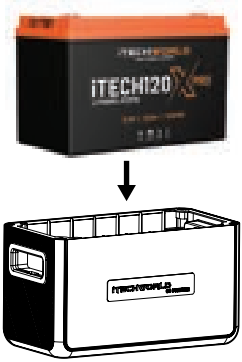
- For larger batteries, use configuration 2, as detailed in the diagram below. The inner dimensions with this separator are as follows:
  328 x 170 x 234mm (LxWxH)



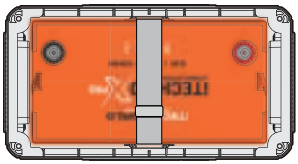


BATTERY INSTALLATION

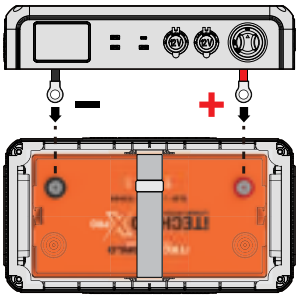
1. Lower your battery into the battery box base carefully, locating it as centrally as possible on the non-slip pads.



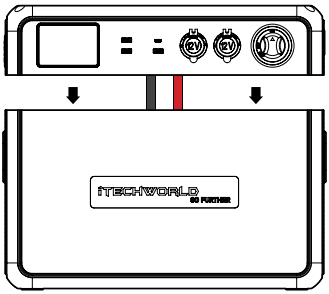
2. Secure the battery in place by tightening the velcro strap over the battery.



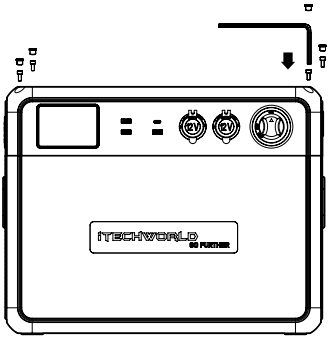
3. Install the battery cables onto the terminal posts of the battery. Ensure the red cable is connected to the positive terminal (+) and the black to the negative terminal (-). Secure them firmly but do not over-tighten.



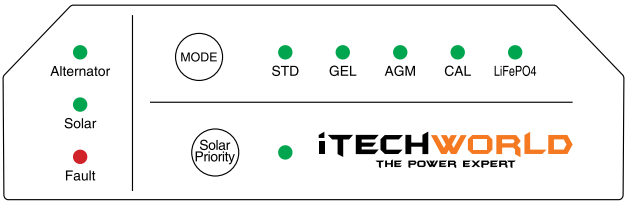
4. Tuck cables in under the battery box lid, lowering the lid carefully onto the box, ensuring the lid is oriented correctly.



5. Install the 4 provided screws to fasten the lid to the base, being sure not to over-tighten with the supplied Allen key.



6. For DCDC Charger Models: Please ensure you check your battery type and select the appropriate profile. For example, select LiFePO4 as the battery type for a lithium battery by holding the MODE button for 1.5 seconds until you've selected the LiFePO4 LED.



BATTERY MONITOR & SETUP

1. Enter the settings screen by pressing and holding the SET button.

2. Enter the SET1 interface to set the overvoltage value and adjust through the up and down arrows. This value should be 0.5V above the battery's stated maximum voltage to allow for a higher float charge voltage.

3. After setting the overvoltage value, short press the SET button to enter the SET2 interface for the undervoltage settings. As before, adjust the values with the up and down arrows. This value represents the voltage at 0% capacity. Please be aware that this number will vary depending on battery type. Recommended settings for lithium batteries are as follows:
   - Lithium: 10.5V

4. After setting the undervoltage value, short press the SET button to enter the SET3 interface for overcurrent settings. You must match this value with the battery's rated maximum current.

5. After setting the overcurrent value, short press the SET button to enter the SET4 interface for capacity settings. Set this value according to the actual capacity of the connected battery.

6. After setting the capacity, short press the SET button to enter the SET5 interface for percentage settings. Set the current battery percentage to 100%.

Note: *We recommend charging your lithium battery to 13.5V before setting your battery monitor to 100%.*

7. After setting the percentage value, short press the SET button to enter the SET6 interface for backlight brightness settings. Set this value to your preferred brightness.

8. After setting the backlight brightness, short or long press the SET button to exit the setting interface and return to the home screen.

MASTER ISOLATION SWITCH

The master isolation switch instantaneously disconnects any connected devices (except DCDC chargers). Turning the master isolation switch off is a quick way to ensure your battery does not drain.

Note: *The DCDC charger can still charge the battery whilst the master isolation switch is in the OFF position.*

CONNECTING CHARGERS

The GoFurther Battery Box is able to be recharged through various ports:

- Connecting an AC charger to any of the in/out Anderson plugs.
- Connecting a solar panel with a regulator to any of the in/out Anderson plugs.
- Connecting alternator power to the DCDC charger alternator input Anderson using our Plug & Play DCDC Wiring Kit*.
- Connecting an unregulated solar panel to the DCDC charger solar input Anderson.

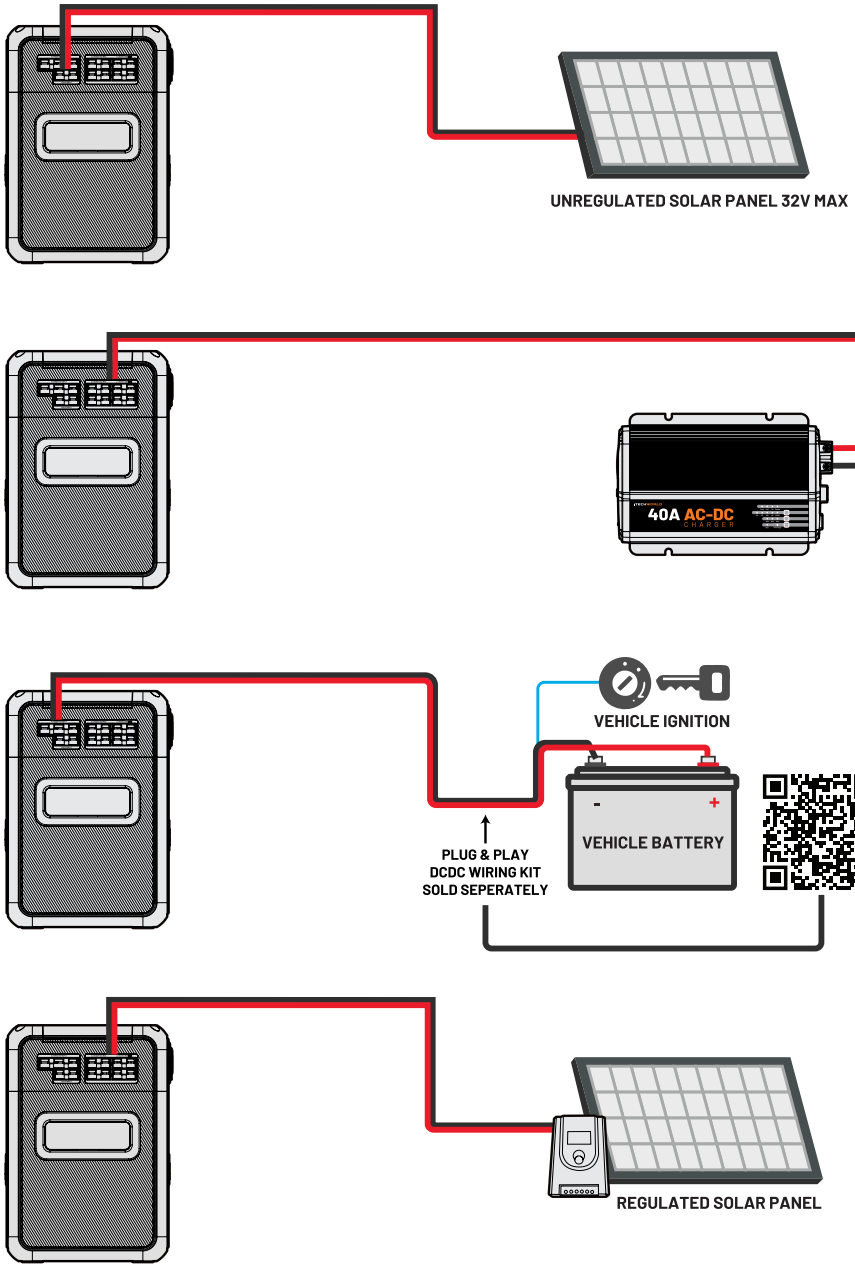
If you're using a model with an integrated DCDC charger, you can charge from a vehicle alternator (wiring kit sold separately) or unregulated solar.

Note: *Your solar panel open circuit voltage must not exceed 32V.*

Do not connect an unregulated solar panel directly to the battery via any of the in/out Anderson plugs. If your solar panel is fitted with a built-in regulator, you can connect it using any of the 4 in/out Anderson plugs.

**Plug & Play DCDC wiring kit sold separately.*

TYPICAL SETUP



SPECIFICATIONS

GoFurther Battery Box		
Dimensions (LxWxH)	External	441 x 240 x 340mm
	External with DCDC	441 x 240 x 355mm
	Internal	360 x 174.3 x 234mm
Outputs		2 x 12V 15A cigarette lighter outputs USB-C Output 3 x fast charge USB Outputs
Inputs/Outputs		1 x 175A Anderson plug 4 x 50A Anderson plugs
Inputs		1 x 3-pin 50A Anderson plug (DCDC Alternator Input) 1 x 50A Anderson plug (DCDC Solar Input)

Battery Monitor	
Model	iTECHBM500
Supply Voltage	8V-100V
Battery Capacity	0Ah-999Ah
Maximum Measured Current	500A
Power Consumption (Screen Off)	<2mA
Power Consumption (Screen Brightness @ 10%)	<20mA
Power Consumption (Screen Brightness @ 100%)	<60mA
Voltage Accuracy	±1%
Current Accuracy	±1%
Capacity Accuracy	±1%
Operating Temperature	-20°C ~ 80°C
Exterior bracket dimensions (LxWxH)	106 x 81 x 18mm
Mounting bracket points (LxW)	95 x 70mm
Monitor backing dimensions (LxWxH)	80 x 59 x 16mm
IP Rating	IP20

DCDC Chargers					
General Rating					
Model	**iTECHDCDC25**			**iTECHDCDC40**	
Vehicle Input Voltage	9V – 32V				
Solar Input Voltage	10V – 32V				
Max Input Current	25A			45A	
Input Fuse Rating	40A			60A	
Continuous Output Current	Up to 25A			Up to 40A	
Output Fuse Rating	40A			60A	
Minimum Auxiliary Battery Charge Start Voltage	4V				
Standby Current	<10mA				
Battery Type	Lithium LiFePO4, Lead Acid, Gel, AGM, and Calcium				
Operating Temperature	-20°C ~ 80°C				
IP Rating	IP67				
Weight	670g			950g	
Dimensions (LxWxH)	150 x 127 x 39mm			188 x 127 x 39mm	
Battery Capacity	50-500Ah			80-800Ah	
Output Rating					
Charge Type	3-Stage				
Charging Profile	STD	Gel	AGM	Calcium	LiFePO4
Absorbtion (Maximum Output Voltage)	14.4V	14.1V	14.7V	15.3V	14.5V
Float Voltage	13.4V	13.5V	13.4V	13.6V	
Input Rating					
Input	Turn On			Turn Off	
12V Standard Alternator	>13.2V			<12.8V	
24V Standard Alternator	>26.2V			<25.6V	
12V Smart Alternator (Ignition Cable Connected)	>12V			<11.8V	
24V Smart Alternator (Ignition Cable Connected)	>24V			<23.6V	
Solar	>16V 2A			<15.8V 1.5A	

SAFETY PRECAUTIONS

The GoFurther Battery Box must be installed and operated correctly for safe operation and optimal performance. Please carefully read, understand and follow all instructions and guidelines in this user guide. Failure to follow these instructions may result in damage to the unit or property, death or serious injury.

Disclaimer: While iTechworld has taken every precaution to ensure the accuracy of the contents of this user guide, iTechworld assumes no responsibility for any errors or omissions.

Furthermore, all specifications and functionality may change at any time without notice.

It is best to view our website for the most up-to date information

WARNING:
The lid of the battery box must always remain closed with the screws tightened whilst charging a battery or powering a device from an outlet.

WARNING:
Do not allow any metal objects to fall into the battery box or enter one of the ports.

WARNING:
Never insert anything other than a compatible adapter into any of the ports on the battery box.

WARNING:
People with physical disabilities, visual, sensory, or mental impairments (including children) should not use this device. Children should be supervised to ensure they do not play with the device.

WARNING:
Do not drop your battery box.

WARNING:
Ensure the battery box does not come into contact with water, rain or snow. Failure to do so may lead to permanent damage to the internal electronics and will void the warranty.

WARNING:
Do not use your GoFurther battery box to connect equipment if there is a defect.

WARNING:
Please select the correct battery charging profile applicable to your battery. Selecting the incorrect battery charging profile may damage your battery or cause fire. If you are unsure of the correct battery charging profile to use, please consult your battery's manufacturer.

WARNING:
Ensure that the selected battery charging profile's charge voltage does not exceed the battery's recommended maximum charging voltage. If you are unsure of your battery's maximum charging voltage, please consult its manufacturer.

WARNING:
Ensure the charger's continuous output current does not exceed the battery's recommended maximum charging current. If you are unsure of the maximum charging current rate, please consult your battery's manufacturer.

DANGER:
These battery boxes are only suitable for battery types listed in the user guide. Do not use them for other purposes.

DANGER:
Do not disassemble or modify the battery box doing so may result in a risk of electrical shock, fire death, or serious injury.

LIMITATIONS OF USE:
Do not use in connection with life support systems or other medical devices.

iTECHWORLD
THE POWER EXPERT

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When it comes to energy storage and creation at iTechworld, we take pride in being one of the biggest names in the industry. Based in Australia, we are a family-owned and operated business. With many more innovative products on the horizon we are committed to constantly raising the bar to provide bigger and better benefits to all our customers Australia-wide.

Whether you're an avid camper, 4WD enthusiast , freedom seeker or camper, we've got your power needs covered. Escape the grid without compromise, minimise your downtime and travel with comfort with our large range of leading products at great prices.

iTechworld. The Power Expert.

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Trustpilot