WILDTRAK

WILDTRAK POWER SYSTEMS

BATTERY BOX VOLT PRO

USER MANUAL



IMPORTANT SAFETY INSTRUCTIONS

- Designed for charging 12V all kinds of type batteries.
- Never attempt to charge non-rechargeable batteries.
- Always keep the battery box lid closed while charging a battery or powering a device through any outlet.
- Do not allow metal objects to enter the battery box or any of its ports.
- Only insert compatible electrical plugs into the battery box ports.
- Ensure the battery box is fully closed and all screws are securely tightened before operating any connected devices.
- Do not use this battery box to jump-start a vehicle when fitted with a lithium battery.



CA7555



CA7554

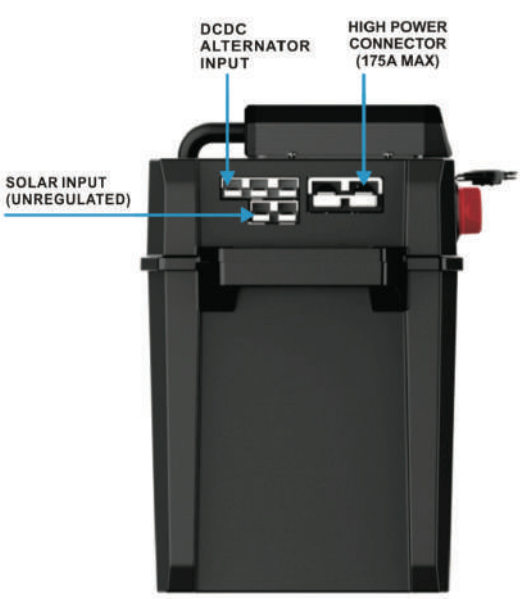
OVERVIEW

Material
ABS

Temperature Range
-20°C to +60°C



FRONT



SIDE



SIDE

GETTING STARTED

Step 1: Check that the pre-installed non-slip silicone pads are properly fitted inside the battery box.



Note: The pads can be washed to restore their stickiness.

Step 2: Carefully lower the battery into the battery box base, positioning 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: Connect the battery cables to the battery terminals. Ensure the red cable is connected to the positive (+) terminal and the black cable is connected to the negative (-) terminal.

Tighten the terminal connections securely, but do not overtighten the battery terminals.



Step 5: Tuck the cables neatly under the battery box lid, then carefully lower the lid onto the box, ensuring it is correctly aligned and oriented.



Step 6: Secure the lid to the base using the four supplied screws. Tighten the screws with the included Allen key, taking care not to overtighten.



Step 7: For CA7555 DCDC Charger Model Only:
Check that the correct battery type is selected on the DCDC charger. For LiFePO4 batteries, press and hold the MODE button for approximately 2 seconds until the battery type indicator light begins flashing. Once the light flashes, the selected battery type has been saved.



OPTIONAL ACCESSORIES

MOUNTING TRAY (OPTIONAL)

Step 1:

- Confirm the installation location for the tray and drill any required mounting holes.
- Feed the strap underneath the tray, sliding it through the slots on either side.
- Ensure the strap is correctly oriented so the hooks face toward the Power Station when installed.
- Secure the tray in place using suitable bolts or screws.
- Use washers during installation to help prevent damage to the mounting surface or tray.





Note: Mounting screws and bolts are not included.

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

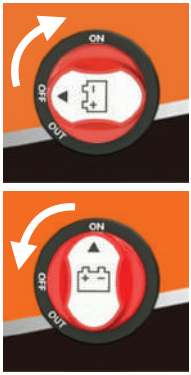


Step 3: To tighten the straps, place your thumbs through each strap loop and pull firmly downward until the Power Station is securely held in place.

To release the straps, press the buckle and pull the strap to loosen it.



SWITCHES



Master Switch
The master switch disconnects power to all outputs and connected devices, except for the DCDC charger. Switching it OFF provides a quick and convenient way to prevent unnecessary battery drain.

Note: The DCDC Charger and Solar Regulator can continue charging the internal battery even when the master switch is in the OFF position.

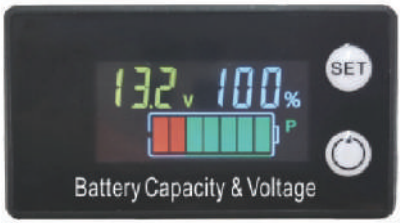
LCD SCREEN

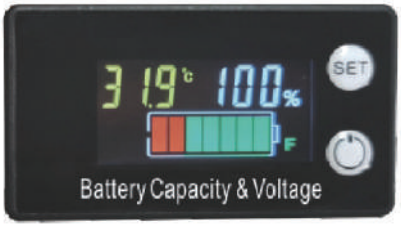
The monitor features a display screen and two control buttons.
The LCD screen is used to monitor the battery's status and condition.

The display provides the following information:

- Battery type
- Total battery capacity
- Battery pack voltage
- Adjustable low battery alarm
- Battery temperature
- Battery protection alarms

For detailed operating instructions, please refer to the full manual.





CONNECTIONS

2 x CIGARETTE SOCKET OUTPUTS



- Maximum 10A output per socket

2 x PD+QC3.0 USB



- Maximum 20A output two sockets

Benefits of Quick Charge
When used with compatible devices, Quick Charge-enabled USB ports can deliver increased power for faster charging performance. Quick Charge technology is widely supported across many smartphones and portable devices. Compatible Quick Charge 3.0 devices may charge up to 80% in as little as 35 minutes.

Quick Charge technology is also backwards compatible, allowing newer generations to work with older compatible devices.

OUTPUTS / INPUTS

1 x (175A) ANDERSON PLUG



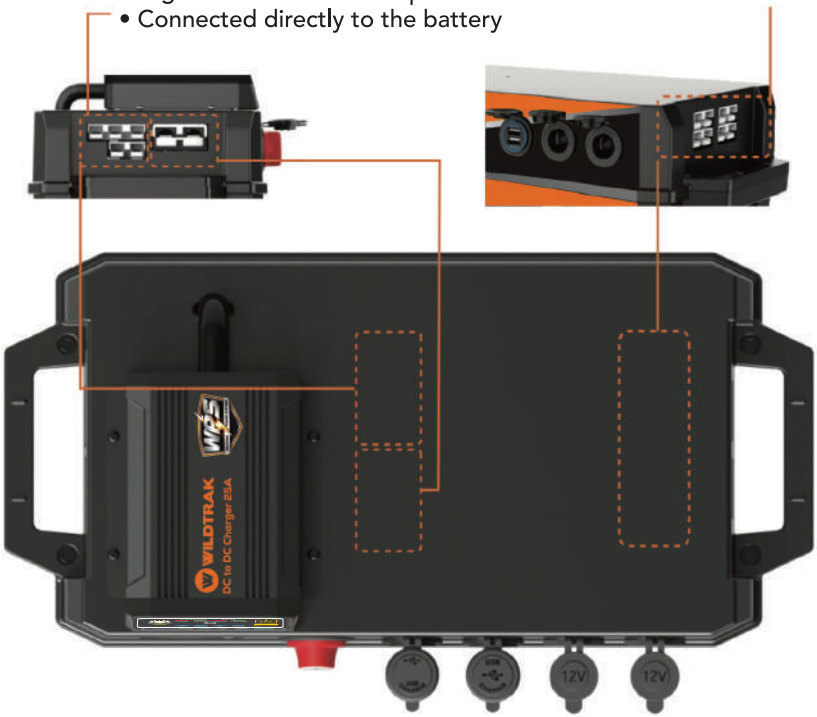
- High-current inverter output
- Connected directly to the battery

WARNING

1. The master switch will disconnect power to this connector when switched OFF.
2. This output is not fused and does not include short-circuit protection.
3. Before using high-current devices or jump-start connectors, ensure the connected battery is suitable for high current draw applications.
4. Lithium batteries must not be used for jump-starting vehicles.

ANDERSON STYLE PLUGS

- High-current inverter output
- Connected directly to the battery



- Input and output capable
- The 4 x Anderson-style plugs are arranged in two separate banks, with two plugs per bank.
- Each bank has a maximum combined input/output rating of 50A.
- One bank is located on the left-hand side, and the other bank is located on the right-hand side of the Power Station.

WARNING
Do not connect multiple chargers simultaneously as input sources.
Do not use an external charger while the DC-DC charger is operating.
Exceeding the 50A current limit will trigger the safety breaker. The breaker will automatically reset after cooling down.

IMPORTANT: THE TOTAL COMBINED LOAD FOR EACH BANK OF TWO ANDERSON-STYLE PLUGS MUST NOT EXCEED 50A.

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 -DC DC charger with MPPT function.
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

CONNECTING TO EXTERNAL CHARGERS

The battery can be charged using several different methods:

- Connect an AC charger to any of the in/out Anderson-style connectors.
- Connect a solar panel with a suitable regulator/controller to any of the in/out Anderson-style connectors.
- Connect vehicle alternator power to the DCDC charger.
- Connect an unregulated solar panel directly to the optional DCDC charger input.

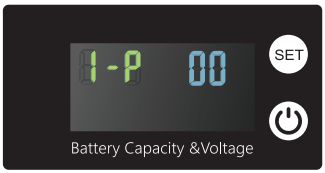
WARNING

- Connecting multiple chargers to the battery at the same time is not recommended.
- Do not connect an unregulated solar panel directly to the battery through any of the in/out Anderson-style connectors.

MODE SETTINGS

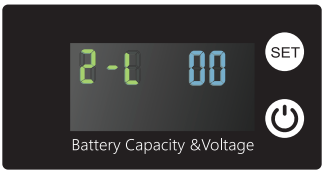
▶ LEAD ACID BATTERY (MODE 1)

1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. The voltage value flashes. Press the **POWER** button to select the required voltage 12/36/48/60/72/84V
4. Press the **SET** button to confirm voltage
5. Press **SET** to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen



▶ TERNARY LITHIUM BATTERY (MODE 2)

1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. The battery series value flashes. Press the **POWER** button to select theseries of battery
4. Press the **SET** button to confirm
5. Press **SET** to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen

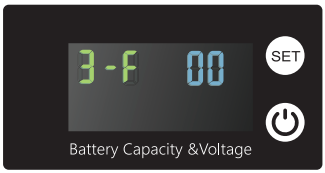


▶ LITHIUM BATTERY (MODE 3)

The battery box is pre-set to Lithium batteries. Pre-set settings:

- **FULL**:100% 13.5V
- **EMPTY**: 0% 10.5V
- **LOW VOLTAGE ALARM:** 11.5V

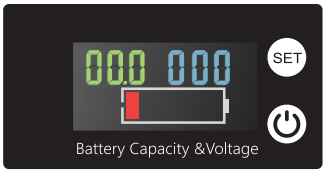
1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. The battery series value flashes. Press the **POWER** button to select the series of battery
4. Press the **SET** button to confirm
5. Press SET to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen



▶ CUSTOMISED FULL & EMPTY VOLTAGE SETTING (MODE 4)

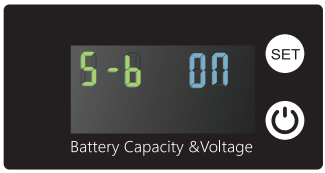
- **LEFT FIGURE 00.0= Empty Voltage**
- **RIGHT FIGURE 000= Full Voltage**

1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. Press the **POWER** button to set the digit value
4. Press and hold the **POWER** button for 2 seconds to shift the cursor
5. Once Empty Voltage and Full Voltage are set, press **SET** button to confirm. The voltage value will be constantly on
6. Press **SET** to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen



NOTE: 000 on the right should be 00.0. Forexample,the actual display of 255 is 25.5.

▶ BACK LIGHT SETTING (MODE 5)

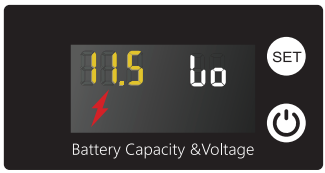


1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. On the backlight setting page, **ON/OFF** flashes
4. Press and hold the **POWER** button to select **ON/OFF**

   a. **ON -** the backlight will automatically power off after 10 seconds
   b. **OFF -** the backlight is constantly on

5. Press the **SET** button to confirm
6. Press **SET** to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen

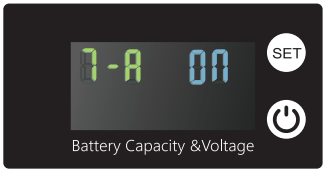
▶ LOW VOLTAGE ALARM SETTING (MODE 6)



The battery box is pre-set to automatically alarm at 11.5V.

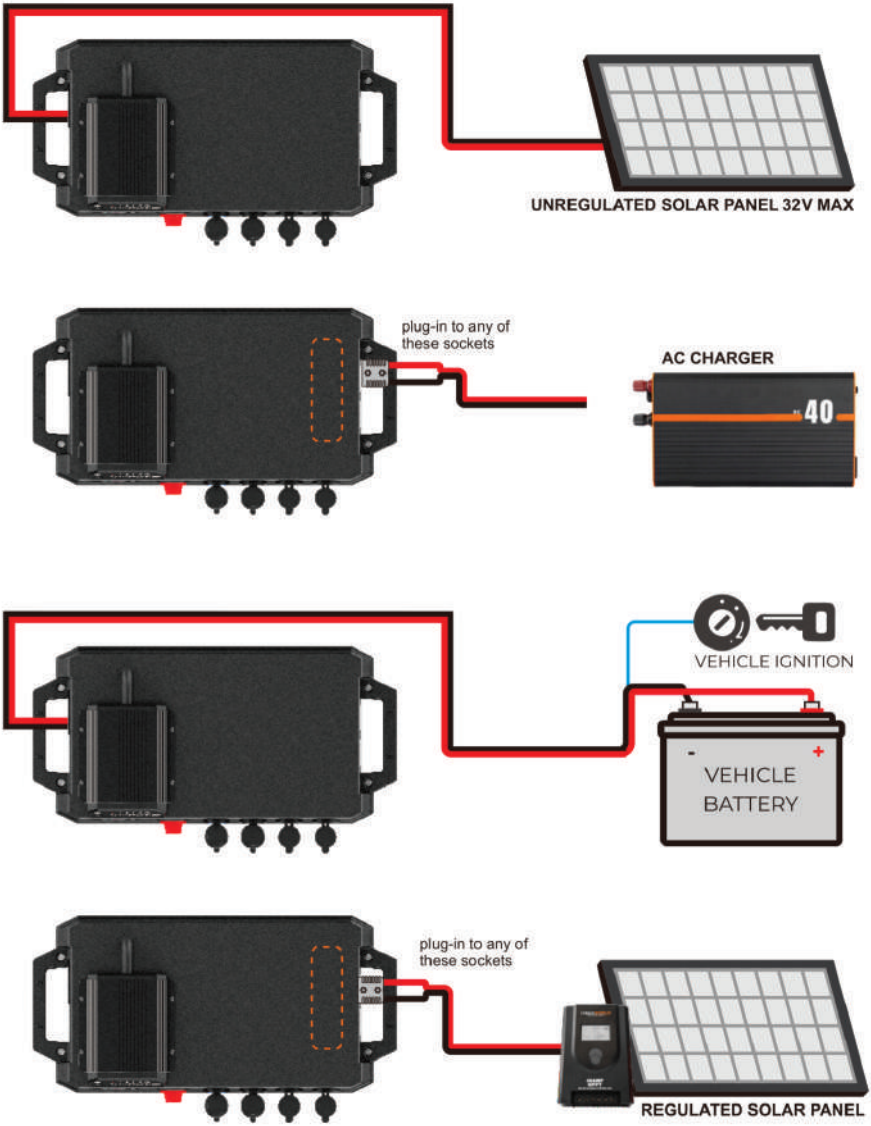
1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. Press the **POWER** button to set the digit value
4. Press and hold the **POWER** button for 2 seconds to shift the cursor
5. After the alarm is set, press and hold the **SET** button to confirm
6. Press **SET** to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen

▶ ALARM SOUND SETTING (MODE 7)



1. Hold the **SET** button for 2 seconds to enter the Mode setting page
2. Press the **SET** button to move to the required mode setting
3. Press the **POWER** button to select **ON/OFF**
4. Press and hold the **POWER** button to select **ON/OFF**
   a. **ON -** turns on the alarm sounda.
   b. **OFF -** turns off the alarm sound
5. Press the **SET** button to confirm
6. Press **SET** to move to the next mode settings or press and hold **SET** for 2 seconds to go back to the main screen

TYPICAL DIAGRAMS



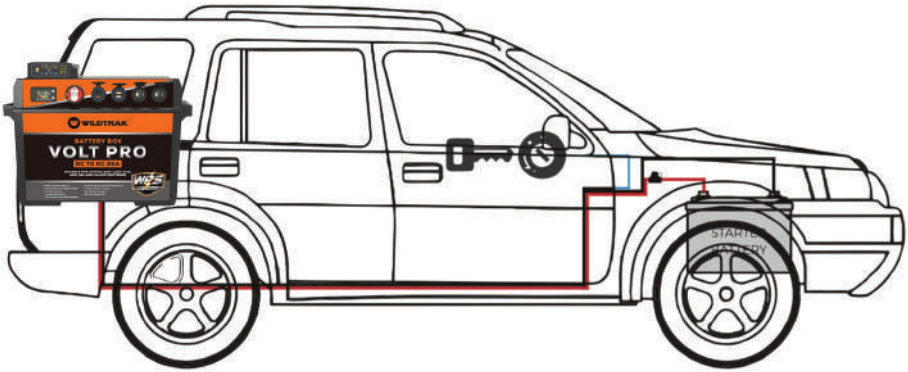
CONNECTING DCDC CHARGER

CONNECTING TO ALTERNATOR INPUT

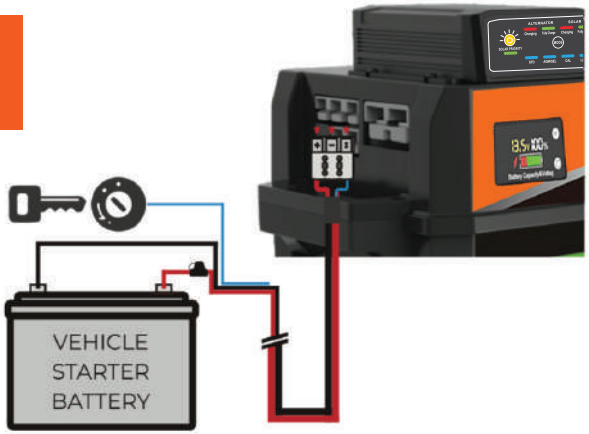
The CA7555 Power Station includes a built-in DCDC charger designed for charging from a vehicle alternator. The easiest way to connect the Power Station to your vehicle is by using the optional Plug & Play Wiring Kit (sold separately).

The triple Anderson-style connector fitted to the Power Station interfaces directly with the Plug & Play Wiring Kit, providing a simple and quick-connect vehicle charging solution.

This connector and cable assembly supplies alternator power to the DCDC charger within the Power Station, along with an ignition source signal for vehicles equipped with smart or temperature-compensating alternators.



WIRING KIT
SOLD SEPARATELY



CONNECTING TO UNREGULATED SOLAR

The CA7555 model includes a built-in DC-DC charger with an MPPT solar regulator, suitable for charging from unregulated solar panels.

To connect an unregulated solar panel, simply plug it into the Anderson-style solar input on the battery box.

Note:

- The solar panel open-circuit voltage (Voc) must not exceed 32V. This specification can usually be found on the label located on the rear of the solar panel.
- If your solar panel includes a built-in regulator, the regulator must be bypassed before connecting to the DC-DC charger input.
- Alternatively, regulated solar panels may be connected to any of the four in/out Anderson-style connectors.



12 MONTH LIMITED WARRANTY

WARRANTY PERIOD:

12 month warranty from date of purchase.

THIS LIMITED WARRANTY COVERS:

- Any defect in the manufacture or design of the items which results in their failure to perform as advertised.
- If item damage is found to have been caused by a design or manufacturing defect, we will replace or repair the item at our discretion.

Our products include guarantees that cannot be excluded under the Australian Consumer Law. Consumers are entitled to the following:

- Replacement or refund for item failure
- Compensation for reasonably foreseeable loss or damage
- Item replacement or repair if it fails to be of acceptable quality even if it does not amount to a major failure

These benefits provided to you as a consumer are in addition to other rights available under the law.

THIS LIMITED WARRANTY DOES NOT COVER:

- Damage from improper use or tampering
- Cost of removal and reinstallation of the product
- Wrong installation or modifications made while installing
- Travel and/or other expenses due to consumer's secluded location
- Transport charges and any damage during transportation. It is the consumer's responsiblity to deliver and pick up their product, this includes all costs that comes with the postage of the repair or replacement of their product. If consumer decides to freight their product, it is advised to insure it against loss or damage.
- Damages caused by insects, animals, mould, bad weather, accidents and fair wear and tear
- Any loss directly or indirectly resulting to product failing to operate

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Email claim along with proof of purchase to sales@wildtrak.com.au