

STOP! STOP!

You Must Read All Instructions

Please Note: This is a recreational power distribution unit and not a jump starter.

Do not attempt to jump start any vehicle with the unit as this will void warranty.

The Nomad PDU V5.5 100ah series comes with a 2-year manufacturer's warranty under normal use and 12 months warranty on the AC/DC Charger.

Battery and BMS are set to provide up 100% DOD – with voltage range **LiFePO4 Prismatic from 14.6v to 10v.**

Approximately 2000 cycles – dependant on type of use. Cycles are an estimation only and not a guarantee or part of the warranty.

The monitor screen switch (smaller red button) and the unit switch (bigger silver switch) are operated separately and do not affect each other. That is, when the unit is turned off, the monitor screen can also be turned on by the monitor screen button.



WARNING!! WARNING!!

The V5.5 series can be charged with up to 50amp regulated charge through Anderson input and also can be charged with an unregulated solar panel <= 300watt connecting to the Red Anderson connection which connects to a 20amp MPPT internally.

At any time, the Max charge rate is 50amp, and you must use a suitable charger with LiFePO4 profile. So if you are installing in a vehicle, the DCDC charger must have a Lithium LiFePO4 profile 14.6v.

Do Not use this unit if you do not read the instructions. Failure to follow instructions, adhere to ratings and loads will void warranty, including ignoring the do not do list below.

To protect the unit and ensure you do not void the warranty, please read the below.

If installing into a vehicle, make sure the unit is well ventilated to avoid excessive heat build-up or exposure to elements. Only ever charge from the Nomad Inputs Red circled area.

YOU MUST NOT DIRECTLY CONNECT TO ALTERNATOR OR CRANK BATTERY WITHOUT A SUITABLE DCDC CHARGER, this will damage the unit.

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- **Do Not use the PDU to jump start a vehicle** (Do Not) - this could cause fire or swelling of the battery as it is not designed for this purpose, it is clear if this has been done.
- Do Not Direct connect to alternator or vehicle battery without a suitable DCDC or regulator LiFePO4.
- Do Not submerge in water and do not run-in series or parallel.
- Do Not attempt to modify the product without express permission from manufacturer.
- Do Not use fuses rated higher than recommended in charging options and accessories.
- Do Not drill holes into the casing as you may drill into the battery chemistry.
- Do Not charge unit at any higher rate than advised – Regulated – 50amp max.
- Do Not try and use DCDC chargers exceeding 50amp, we have optional Lithium specific DCDC chargers available in 10 or 20amp options.
- Do Not charge the unit in a closed environment. Please ensure good ventilation to avoid affecting heat dissipation during charging. Otherwise, it will reduce the service life of both the unit and charger.
- **Please Note:** The unit has built in 20amp MPPT solar Controller so you can connect and unregulated solar panel to <= 300watt

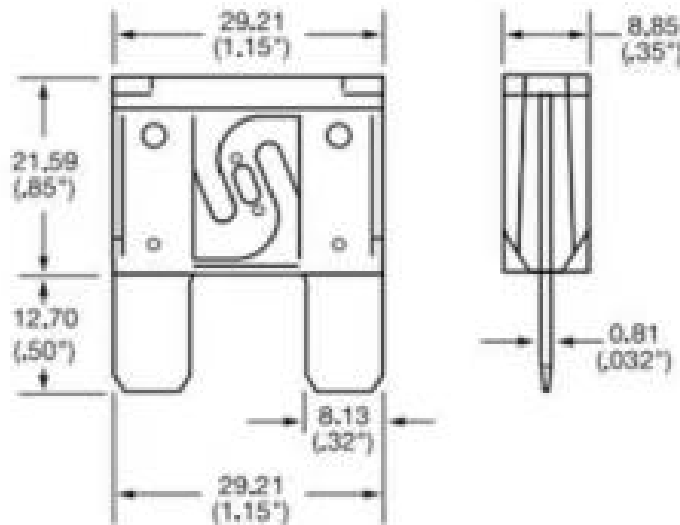
Read All Instructions to maximize life of unit.

Typical operating specifications and do's and don'ts.

- **IMPORTANT** – Only charge from the Red Circled Anderson Input. – Do not charge from any of the outputs which are all circled with green.
- **Always Ventilate your Nomad** – Do not enclose which can create additional heat.
- **Charge while supervised** – Never leave batteries on charge unattended. – Disconnect when full if charging via the ACDC 10amp charger.
- **Discharge Maximums – 100ah** has a maximum discharge of 100ah constant across entire unit. And the total maximum constant discharge current is 100A across entire unit. The accessory outputs such as Anderson (50amp) and Ciga sockets (10amp) and USB-C are rated as such Do Not Exceed.
- **Accessories Note** – You can run your fridge and accessories while charging your unit.
- **Charging** – The SOC Screen will indicate a charge or discharge amperage.
- **OVERCHARGE PROTECTION** – If the unit is overcharged, please remove the charger.
- **DEAD SHORT PROTECTION** – If you have a dead short, the unit will trip out. Please remove loads and then charge the unit to restart.
- **REVERSE POLARITY CHARGE PROTECTION** – If a reverse polarity charge has occurred, you may need to change the 60A disposable fuse. Please remove the screws, remove the rear panel, and find a black cover. Inside is the location of the 60A disposable fuse in blue color. Please open the black cover and move the

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bad fuse, and replace it with a new one. You can refer to the following pictures about the replacement steps and the size of the 60A fuse.



- **Solar Panels** – If using a Regulated solar panel you connect to the grey Anderson input. If your solar panel is unregulated, ensure it is ≤ 300 watt and connect to the Red Anderson connection which is connected to the internal MPPT 20amp regulator. Profile for the unit is 14.6v.

Features:

- SOC (State of charge screen with Daly Smart BMS app for) scroll buttons for charge rate, load and % to full. Plus Bluetooth enabled
- 2 x 10amp Ciga Sockets.
- 1 x dual USB-c output.
- 2 x 50amp Anderson Output.
- Outputs all circled in Green
- 1 x 50amp Max regulated Input Grey (Circled Red)
- 1 x 50amp Max Red Anderson for unregulated solar panel only ≤ 300 watt
- Full Bluetooth Diagnostics
- AC/DC Charger – 10amp Lithium AC/DC charger included

NOMAD V5.5 PDU come with a 24-month manufacturer's warranty under normal use and 12 months on the AC/DC Charger – see above.

“Charging the V5.5” General SOLAR

- **Regulated Charge Option** – if your solar panel has a suitable regulator then connect to grey Anderson input marked regulated input 50amp
- **Unregulated Solar Panel** – if you have an unregulated solar panel ≤ 300 watt then you can connect directly to the Red Anderson Input (this is connected to an internal 20amp MPPT controller).
- **If** you run the battery completely flat, a solar controller may not detect the battery depending on its technical limitations, if this occurs, simply give the battery a short charge from the ACDC charger which will wake up the connection.

“Charging the Nomad V5.5-Series” From Vehicle

- **Do Not Direct Connect** your crank battery or alternator directly to the battery – You must have a suitable DCDC charger between the Nomad V5.5 and vehicle. Once regulate, please connect to grey Anderson.
- **Do Not Connect** vehicle directly to the unregulated Red Anderson connection, the red Anderson connection is for a solar panel only ≤ 300 watt unregulated only.

“Charging Characteristics of LiFePO4 Prismatic”

- It is normal for the Lifepo4 to charge up to 14.6 volt. When the charger is removed, the voltage will drop to about 13.3 volt and stay above 10 volt for the cycle. This is normal characteristics of the Lifepo4 Chemistry.
- Never leave batteries unsupervised when charging. Disconnect when fully charged.
- If storing the unit for extended period time, fully charge and then store away.

Important – When you first unpack your new V5.5, it is important to fully charge the unit to have the Bluetooth App calibrate to the SOC (State of Charge) screen on the battery.

Bluetooth.

Download the Daly Smart BMS app to your phone from the App store or Google play. The below icon will appear on your phone once downloaded.



When your phone is within range of the battery (up to 10 meters) , please click on the app. You will be presented a screen with a choice of Single Cell, Parallel and Series.

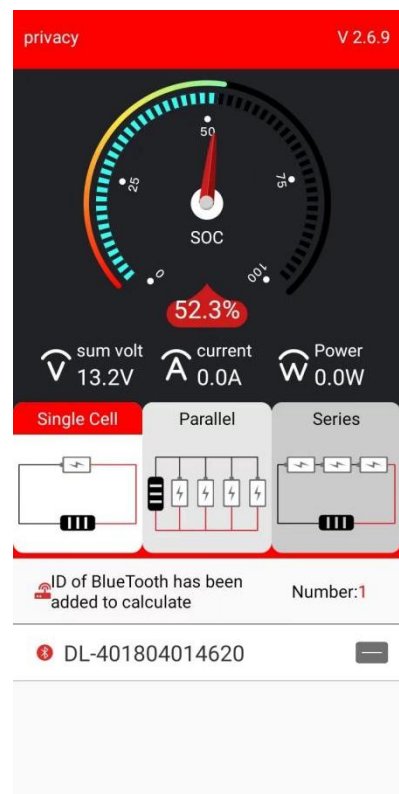
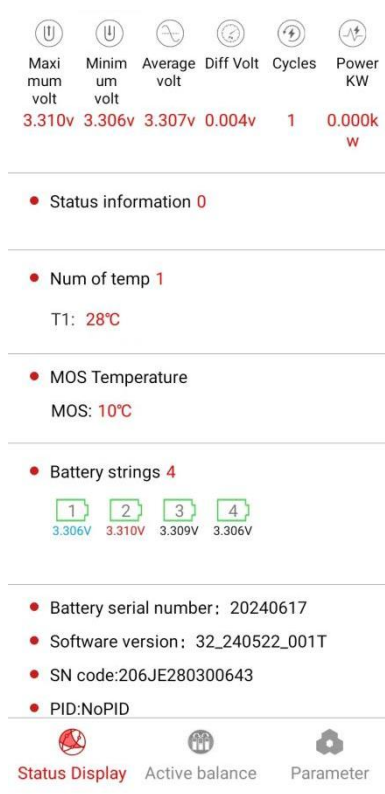
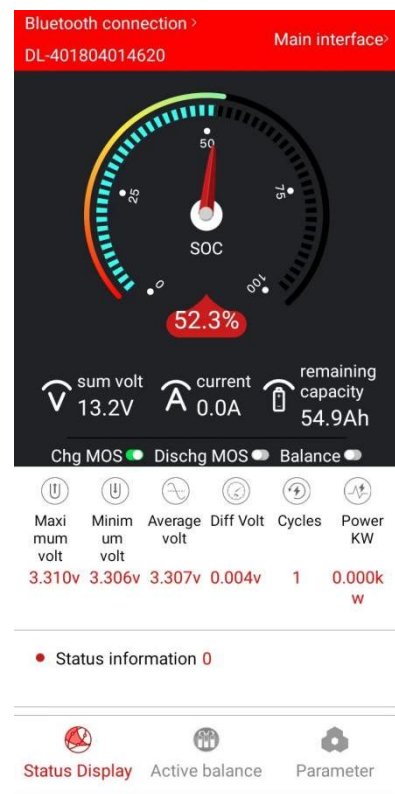
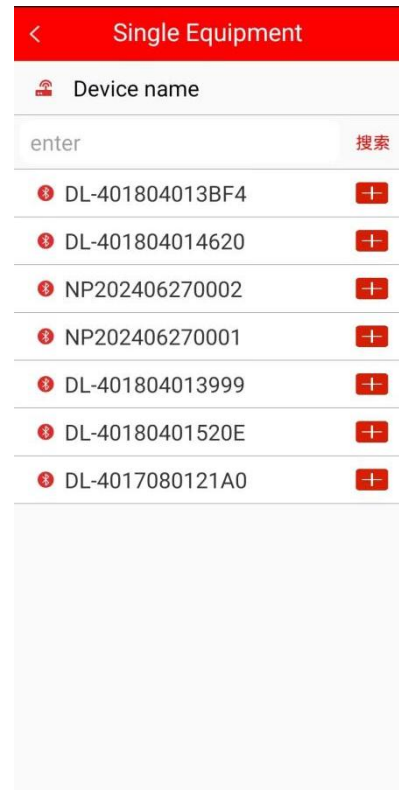
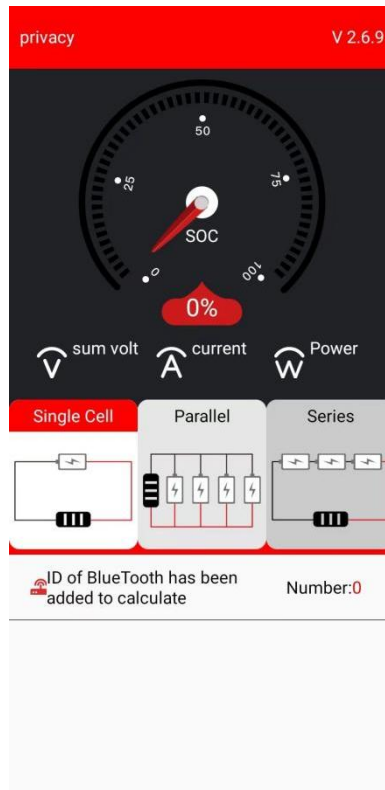
Click on “Single Cell” and it will bring up the battery serial numbers list (starting with DL or NP). Select the number that corresponds to the label on your battery, which is the Bluetooth ID of the battery, and click to connect.

Once the blue-tooth connection is successful, the detailed information interface of the battery will automatically pop up as shown below.

You can click “Bluetooth connection” to change to connect with another battery.

Or click “Main interface” to be back.

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Once the unit is full, the charge current will show 0.0A and your app status on the phone will be same as SOC screen or within a few V or A.

The SOC screen will indicate when charging and light up the unit display.

This will show current on the app if still charging or 0.0 on the app if it is full.

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The Blue tooth Status gauge is like a fuel gauge. It can show full but will still be taking on charge like a fuel gauge shows full when it still has 5-10 litres to go in.

The app is only an indicator of status such as charge and discharge.

The SOC screen is calibrated off the BMS, both the app and the Screen on the battery will be within 1% of each other.



(SOC) Screen will show amp input when charging. Current/Voltage

The Current is shown under the dial gauge right hand side.

It will show - 5amp for example (minus symbol) if there is 5amp being drawn, or it will show 9.5amp (no minus symbol) meaning the charge current.

So, remember that if you are charging and running accessories at the same time it will show the difference of current in either charging or discharging, this is normal.

Also note that the current will only show once it is more than 1 amp either way, due to the BMS utilizing a transfer current.

All factory settings are locked to the battery to ensure optimum performance.

– **Please do not alter the system parameters.**

Blue Tooth Trouble Shooting:

If your phone is within range, but it loses connectivity or does not present the battery Bluetooth number as an option for connectivity, it is possible that the Bluetooth has gone into sleep mode or you have Bluetooth turned off in phone settings.

You can reset it by simply discharging the unit until it will not turn on, and then put on the ACDC charger, and you should be able to connect.

Make sure the Bluetooth is turned on the phone settings.

Contacting Nomad

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