

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 L series comes with a 3-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 14.6 v – 10v.**

Approximately 3,000 cycles – dependant on type of use. Cycles are an estimation only and not a guarantee or part of the warranty.

WARNING!! WARNING!!

The L series **accept a regulated charge only** of up to 50amp – you must use a suitable charger with Lifepo4 profile and 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. 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.

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.
- Do Not submerge in water and do not run-in series.
- Do Not attempt to modify the product without express permission from manufacturer.
- Do Not use fuses rated higher than recommended in charging options.
- 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 Charge with an unregulated source such as an un-regulated solar panel.
- Do not try and use DCDC chargers exceeding 50amp, we have an optional Lithium specific DCDC chargers available in 10 or 20amp options.
- Read All Instructions to maximise 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.

- Total output across entire unit at any time cannot exceed 50-amps. If unit trips out, then remove charge or loads.
- **Accessories Note:** You can run your fridge and accessories while charging your unit.
- **Charging** – The SOC Screen on the unit will pulsate when charging.
- **OVERCHARGE PROTECTION-** If PDU is overcharged, remove the charge. **DEAD SHORT PROTECTION** – If you have a dead short, the unit will trip out. To reset, remove loads.
- **Solar Panels**– Your solar panel must have a regulator suitable for Lifepo4 with a regulated charge of \leq 50amp. 14.6 volt.

Features:

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

NOMAD L Series 105 and 135 PDU comes with a 36-month manufacturer’s warranty under normal use and 12 months on the AC/DC Charger – see above.

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“Charging the Nomad L-Series” General SOLAR

- **Regulated Charge Only** – Your solar panel must have a suitable regulator to provide 14.6v profile Lifepo4.

“Charging the Nomad L-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 L Series and vehicle.

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 and stay above 12.8 for the cycle. This is normal characteristics of the Lifepo4 Chemistry. Never leave batteries unsupervised when charging. Disconnect when fully charged.

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

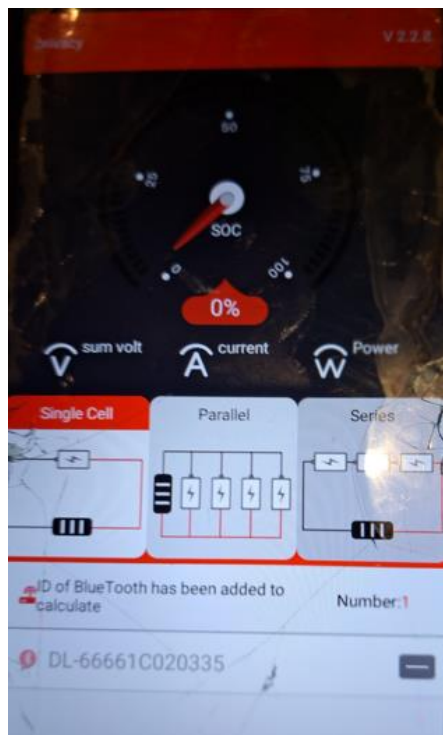
Bluetooth.

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 metres) when you click on the app it will bring up the battery serial number DL number – you click on that to establish the link.

You may then be presented a screen with a choice of single – parallel or Series, you click on single and the screen on the right bellow will establish connection to the Battery. The DL number which comes up on screen is printed on the end of the units on a small label.



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 pulsate 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.

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 can show 90% for example and the App shows 100%. However, the unit is still taking on charge on the status screen. Once full, both SOC and App will be calibrated within a couple of percent.



(SOC) Screen will Pulsate when charging. Draw/Voltage/Charge Rate

The Blue Tooth app can at times not be calibrated exactly to the SOC screen on the Battery for a few reasons, but part of the normal operation and typically when the unit is not being used. The Battery could have been turned off or have been in sleep mode at the battery, which stops the BMS drawing constant power when not in use, and the shunting process for the screen. The App will recalibrate once the battery is on charge and still taking charge – the SOC screens and Blue Tooth app will then (catch up with each other) a normal part of the pairing process. Please Note: that the Blue Tooth app will show the charge rate on the Status Display under Current – which will show you the charging amp.

The Current is shown under the dial gauge right hand side and 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 rate. 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 the BMS utilising 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 and loses connectivity or does not present the battery DL 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 will not turn on, then put on ACDC charger, you should now be able to connect. Make sure the Bluetooth is turned on the phone settings.

There is also a manual reset button that can be depressed for 5 seconds, which is located inside the unit and requires taking off the backplate temporarily and then replacing plate. Try first option in the rare occasion there is a connection problem.



www.nomadpdu.com.au

contact@nomadpdu.com.au

Sydney - NSW
Level 29, Chifley Tower
Sydney NSW 2000, Australia
p: (02) 8006 0911

Melbourne - Victoria
Level 2 Riverside Quay
1 Southbank Boulevard
Southbank VIC 3006
p: (03) 9028 5996

Perth - Western Australia
Level 28/140 St Georges Terrace 6000
(08) 9467 7389