

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 Unit Battery and BMS are set to provide up to 80% DOD – or 80 percent (80ah) of the total rating of the unit (100ah), before unit shuts down – Discharged voltage between 8.4-8.8 volt Fully Charged at 12.4-12.6 Volt. It is set at 80% to support the longevity of the battery life.

WARNING!! WARNING!!

Do Not use this unit if you do not read the instructions. The Nomad PDU comes with a 12-month manufacturer's warranty under normal use, failure to follow instructions, adhere to ratings and loads will void warranty, including ignoring the do not do list below.

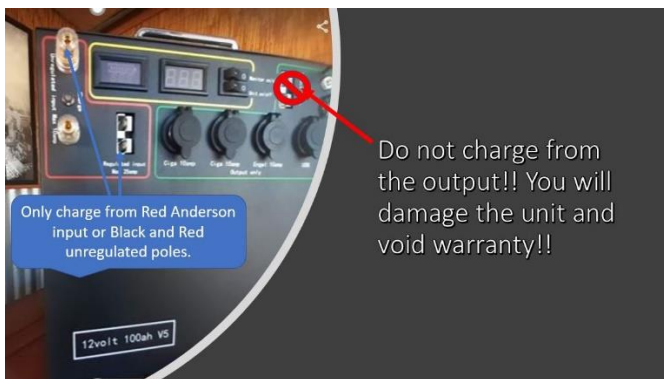
To protect the unit and ensure you do not void the warranty, please read the below.

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.

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 run the PDU's in serial (24 volt)
- Do Not submerge in water or subject to water saturation.
- Do Not attempt to modify the product without 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 – Unreg 10amp max reg – 25amp max
- Do Not Charge with both unregulated and regulated power sources at the same time, resulting in overcharging and BMS damage and or imbalance the battery, use one or the other at any time.
- Do not try and use DCDC chargers designed for AGM/Lead Acid or Gel, we have an optional Lithium specific DCDC option available. 5, 10 or 20amp options.
- Read All Instructions to maximise life of unit. Typical Operating Specifications do's and don'ts.
 - **IMPORTANT** – do not charge from the green circled Anderson output, this will damage the battery pack, overcharge and imbalance the unit voiding warranty.
 - **Always Ventilate your nomad** – do not enclose and create additional heat.

- **Only charge from the Red Circled Anderson 25amp input (regulated) or the Unregulated charge poles (Red and Black Max 10amp) do not charge from any other plugs or ports, do not charge from any outputs, in the green area.**



- Total output across entire unit at any time cannot exceed 20-amp output, if unit trips out then remove the load and turn the unit off and then back on, plug in the AC/DC charger or solar to trip the reset, the lights and LED will come back on. DO not exceed 20amp or you can damage the Balance in the Battery Series.
- **MAXIMUM CHARGE RATES – MAXIMUM REGULATED CHARGE RATE “25amp” – (RED CIRCLED ANDERSON), The UNREGULATED SOLAR POLES RED AND BLACK have Max Charge Rate of “10amp”,, do not exceed these charge rates or the BMS and or MPPT can be damaged. MPPT Rated 10amp.**
- **Accessories Note:** You Can Run Your Fridge and accessories While Charging...
- Dual Screens for your convenience - First screen for current voltage and charge, second screen tells you how much your accessories are drawing from the unit.
- Red Light charging indicator will indicate unit being charged, the light can go on and off when floating at full charge.
- **OVERCHARGE PROTECTION-** If PDU is overcharged, ie you have tried charging at higher rate than specification, the PDU has Battery protection and will trip and bleed off the current, the unit will then not take on charge – you will need to draw more than 1 amp from the unit to reset the charging – view the tutorial on nomadpdu.com.au. **DEAD SHORT PROTECTION** – If you have a dead short, the until will trip out. To reset, disconnect the load or fault, turn off then back on and plug in a power source, this will reset the unit. You can view a tutorial on this at nomadpdu.com.au
- 8-amp AC/DC Charger – can be used with a suitable inverter in vehicle, pure sine is preferred, however most modified wave can be used, test your inverter with retailer.
- Un-Regulated Solar - Solar charging options – unit can accept unregulated solar panel directly connected to the red and black poles. 10AMP MAX INPUT check your panel output ratings internal MPPT is rated 10amp 8-32 volt.
- Regulated Solar Panel – Maximum charge rate into Red circled Anderson is 25amp 12 volt, do not exceed.
- Dual USB ports – Maximum 1.5 amp (typically can charge 2 Iphones, or android phones, Camera etc)

- 2 by Ciga(10amp) , 1 by Anderson (NEW 20amp output) 1 by Engel socket (10amp), 2 by 2.1 jack (5 amp each) configuration. Accessory adapters available from your supplier.

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.

Do Not Charge from any input (Green circled area) this will damage the BMS, Battery Pack and cause an imbalanced battery, voiding warranty.

NOMAD PDU comes with a 12-month manufacturer’s warranty under normal use – see above.

www.nomadpdu.com.au

When your Nomad PDU is low in voltage, the unit will draw as much current as it can get, **do not** connect directly to the alternator, crank or ciga socket directly without a dcdc charger or voltage stabilizer, an unregulated direct connection will destroy the battery, MPPT and BMS, and void warranty.

WARNING!!

Do Not use this unit if you do not read the instructions WARRANTY

The Nomad PDU comes with a 12-month manufacturer’s warranty. To protect the unit and ensure you do not void the warranty, please read the below.

“Charging the Nomad” General SOLAR

- **Regulated Charge** -The RED Anderson Connection on the PDU is for Regulated Charge only – NOW WITH 25amp charging Maximum. Your Solar panel will either be regulated or unregulated (if the panel has an MPPT Controller on the back) it is regulated and plug into the RED ANDERSON Port to charge, you also plug in your AC/DC 8-amp charger into this port as-well.

- **Unregulated Charge** – typically from a solar panel without an MPPT Controller, your panel will give you that information, unregulated solar connects to the solar Poles Red and Black (Maximum 10amp charge) – PLEASE ADHERE TO THIS RATING and recommended to fuse no more than 10amp to the poles. **Only connect unregulated panel to red and black poles**

DO NOT PLUG AN UNREGULATED SOLAR PANEL INTO THE RED ANDERSON INPUT – THE PANEL MUST HAVE ITS OWN REGULATOR TO USE THIS INPUT.

- **Panel Size Reg or Unregulated** – quite simply look for a panel that has a max output of 25amp in a panel with its own regulator, then PLUG INTO RED CIRCLED ANDERSON, and if Unregulated Solar Panel (Panel only) – Maximum charge rate is 10amp 8-32V, connect to solar poles (BLACK AND RED) this goes through an internal MPPT of the Nomad that will convert to a Lithium Charge. MAX 10AMP rated panel only – an unregulated panel of 150-180 watt is well sufficient.

Charging from Car: DO not connect directly the Alternator, Crank or ciga socket as you will damage the Nomad PDU and void warranty.

- **Preferred Vehicle charging method is by DCDC Charger** which will charge with lithium specific algorithm. – the optional 10amp or 20amp Lithium DCDC in car charger that can be purchased or Plug and Play Ciga DC will regulate charge to 5amp, 10amp or 20amp and provides a lithium specific charge. The kits provide plug and go and full dual set ups, view at nomadpdu.com.au for full specs

PLEASE NOTE: REGULATED CHARGE PORT : PLEASE ENSURE YOU ONLY CHARGE FROM THE RED CIRCLED ANDERSON STYLE PLUG –“DO NOT” CHARGE FROM THE OTHER ANDERSON (OUTPUT in green area) , AS THIS CAN DAMAGE THE UNIT EXTENSIVELY, AND VOID WARRANTY.

You plug the DCDC charger into the Regulated input (Red Circled 25amp Input, the DCDC module charges constant 10 or 20amp) Installing a DCDC directions are also included in this instruction leaf in the kits If you are going to use an existing Ciga plug and socket, then ensure they are rated 10-15amp or more minimum.

UNREGULATED CHARGING POLES – (RED AND BLACK) these are to connect an **unregulated solar panel** (With a maximum charge rating of ≤ 10 amp) If your panel does not have a regulator this is where you charge from.

- **Can you charge with both DCDC and Solar at the same time?** – No, please choose one or the other option, as this also contributes to the life of the unit. The question that needs to be asked is what are the loads the unit will be using, as 10amp via DCDC or solar is typically efficient. Most people run the DCDC while driving then connect the solar panel when camping.
- Make up adapter leads if you are going to put under a seat or out of the way, then you can simply plug in Andersons to whatever charge source you choose.
- **Inverter: Simple in car charging** can also be done by plugging in a 150-300-watt inverter, and then plug in the AC/DC amp charger into the inverter, then it is regulated to the RED CIRCLED ANDERSON CHARGE INPUT. The charger will draw 109 watts when running from an inverter – please check your vehicle wiring is rated at minimum of 10amp, IE your ciga socket should tell you the rating of the socket. Check the inverter is compatible, preferable pure sine. Please check if using a modified inverter at time of purchase as some inverters can trip a fault light due to circuitry in the inverter. Do not run a 150-watt inverter for more than a few hours at a time.

You can run your fridges etc while the unit is charging.

View Most Common Questions and Answers – Overload and Dead Short Instruction Tutorials at our Website.

Never charge any battery unsupervised – always charge in a well ventilated area.

www.nomadpdu.com.au

www.renewablebiz.com.au

[Trouble shooting and FAQ at Nomadpdu.com.au](http://www.nomadpdu.com.au)