

NOMAD V5 PDU CHARGING REG _ UNREG AND TRICKLE

- 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, 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 NOTE: REGULATED CHARGE MAXIMUM IS 25AMP – (red Anderson) UNREGULATED CHARGE MAXIMUM (RED AND BLACK SOLAR POLES IS 10 AMP only RED SECTION ON UNIT IS CHARGING SECTION INPUTS ONLY.

- Panel Size – quite simply look for a panel that has a max output of **25amp if REGULATED PLUG INTO RED ANDERSON**, and if Unregulated Solar Panel – Maximum charge rate is 10amp, connect to solar poles (BLACK AND RED) this goes through an internal MPPT controller. **MAX 10AMP**
- The **GREEN ANDERSON CONNECTION** IS AN OUTPUT **20amp MAX**
- **Trickle Charging from Car** – Two Ways, **1)** Always start with fully charged unit, it will require little charge to keep full. When using vehicle ciga socket. If you connect a ciga male plug to the car and then to the PDU you can connect to Solar Poles, but you must fuse the line with a “**5amp**” fuse and no larger with either option. The 5amp fuse will trip at 10amp, so do not use higher rated fuses to allow higher charge as this will damage the BMS or MPPT. **OR 2)** If the output of the Ciga is regulated less than **25amp** you can plug into the Red Anderson (**Fuse with 10-15amp fuse no larger**). Check with Multi Meter. **REMEMBER – start with the PDU Full as it will draw less current to maintain.!!**
- Easiest and safest in car charging can be done by plugging in a 150-300-watt inverter, and then plug in the AC/DC amp charger, then it is regulated to the **RED ANDERSON CHARGE INPUT**.
- **DCDC Charger** – there is an optional 10amp Lithium DCDC in car charger that can be purchased that will regulate charge to 10amp.
- **Remember do not connect a flat PDU to the vehicle without fusing in place – 5amp if connecting to the solar poles or 10-15amp if connecting to the BMS (Red Anderson). Do not fuse with heavier fuses or you will destroy the unit.**
- AC/DC Lithium Charge – You may have an 8amp lithium AC/DC Charger to charge the unit, you can plug the charger into a 150-300-watt inverter that is plugged into a ciga socket in the vehicle, this will ensure the charge is regulated.

PLEASE NOTE: A maximum charge rate of 10amp can be applied unregulated at any time, Red and Black Poles. A New Maximum of **25amp REGULATED can be charged through the RED ANDERSON INPUT (REGULATED ONLY)**.

OVERLOAD / RESEST: The unit has reverse polarity, dead short and overload protection and will shut down to protect itself –, turn unit off wait 30 seconds and turn back on – plug in the AC/DC charger which will trigger the unit to reset and the LED lights should all return (plug the charger in to provide a power source for the reset)

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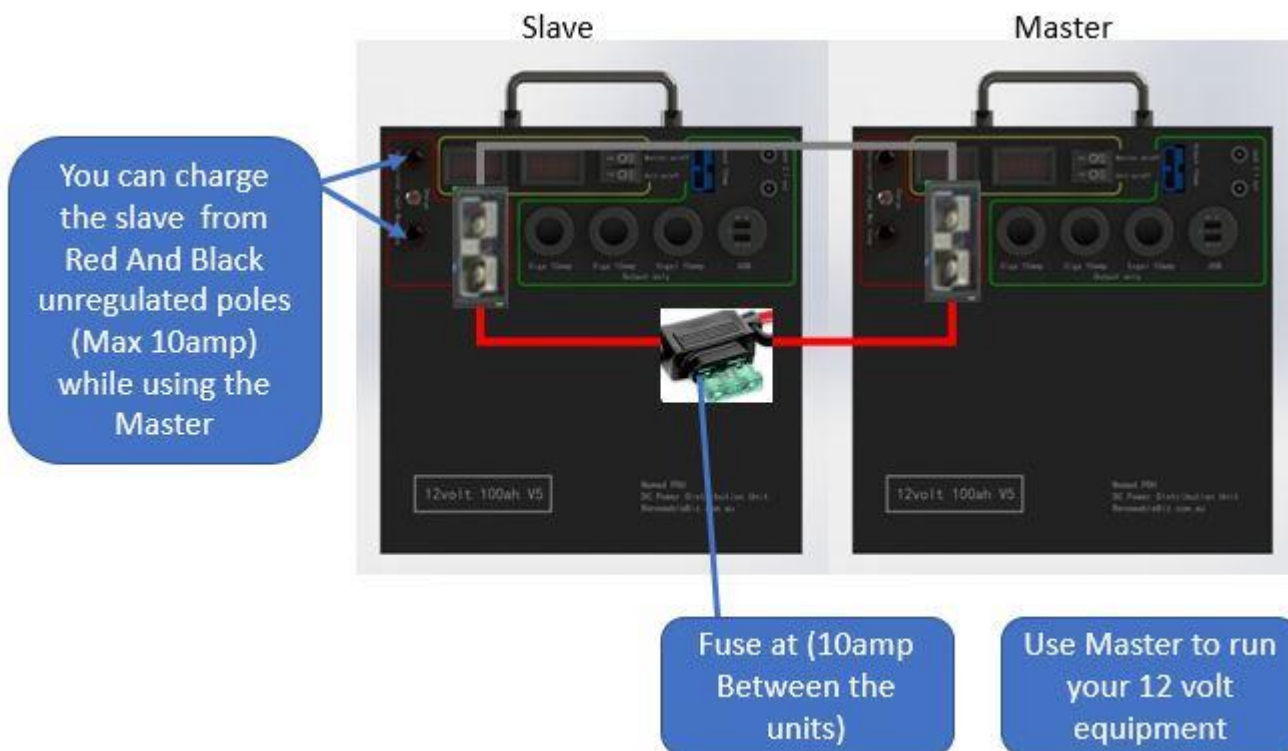
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NOMAD PDU V5 – PARRALEL SET UP

- The V5 can be run in Parallel with another V5 of the Same ah size – so if you have a 100ah Nomad PDU V5, you can connect to another 100ah V5 in parallel so you can then have 200ah between the 2 units.
- You must only do this if the 2 V5 are the same capacity. Do not do this with a 60ah and a 100ah, this will damage the units.
- DO NOT TRY AND SET UP IN SERIES TO INCREASE VOLATGE _ PARALLEL AS BELOW ONLY.
- By connecting 2 by V5 PDU you simply treat one of the units as a Master and the other unit as a slave.
- You can charge the slave unit while in parallel through the unregulated solar poles Black and Red Max 10amp unregulated charge.
- The unit with the highest voltage should be used as the Slave, the current will feed across to the Master which is the unit under load (I.e. the Master unit is the Unit providing power to fridge, lighting, campsite etc)
- CONNECTING IN PARRALEL – Anderson connections with 10amp fuse between the units CONNECTING TO THE RED INPUTS ONLY ON “BOTH UNITS” **Red Anderson to Red Anderson.**

Parallel Set Up



Please View further details at renewablebiz.com.au or nomadpdu.com.au.

There are several Tutorials to be found on our website covering many of the questions you might have.

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