How to install/connect power from the 30 amp inlet of my trailer to the PD 5000 distribution panel.

The shore cord will have 3 wires, Ground./ green or bare. Hot / Black . Neutral / White

All AC wiring stays in the AC side. No DC wires are permitted to be on the AC side.

The Ground wire will go to the lower (horizontal) buss bar, as will any ground wires from other AC circuits. An 8 gauge Wire (bare copper) needs to be run from this buss to the closest place you can reach the chassis and secured there. This is critical for safety.

The White Wire will go to the vertical buss bar as will any white wires from other circuits.

## The white/neutral and Ground wires do not connect to each other in an RV or Trailer

The Black/Hot wire from the 30 amp cord will go to a 30 Amp breaker. This is the main breaker and goes in the top position. You then install the Main breaker hold down bar with the screw provided, this breaker can be a single or double as in the picture.



How to install/connect/wire circuit breakers and specifically which type of circuit breakers to use ?

The correct circuit breakers are listed on the label behind the front cover.

## How to connect the 9200 to the PD 5000 distribution panel?

The PD9245, 9260,9270 will plug into a 15 amp outlet wherever you want to locate it or into the optional outlet at the back of the PD5000. The PD9280 needs a 20 amp outlet.

To wire this or any other 120 VAC outlet. Using Romex cable.

- 1. A breaker is chosen to protect the wire. 15 amp for 14 guage, 20 amp for 12 guage wire.
- 2. The breaker is inserted next to the main and the black wire is connected to it.
- 3. The White wire goes to the neutral buss with the other white wires.
- 4. The bare copper ground wire goes to the ground buss.

The PD9200 has a ground lug on the side that needs an 8 guage wire run to the chassis at the closest point. The Positive wire will go to either the battery or the PD5000 Positive lug

connector on the side of the unit. It needs to be large enough to carry the full output amperage of the converter..In any case a Wire will go from here to the battery.



The - minus DC wire will run to the chassis or the optional DC negative buss-bar on the back of the PD5000. If using this bussbar it needs an equally heavy wire run to the battery -, or the chassis if the chassis is used as a conduit for the negative side.

I also need a general idea of space necessary for installation regarding ventilation of these devices.

The PD5000 needs no ventilation only enough space behind it for your wires to bend.

The PD9200 needs some ventilation. A few cubic feet is enough with some air inlet and exhaust.

## Other rules to note:

- 1.Only 1 wire may be connected to a breaker unless it is rated otherwise.
- 2.Any wire running to the battery positive 18" or longer must be fused to protect the wire within 12" of the battery.

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