

PS500/505

1. If the PS500 needs to be mounted, remove the PS500 cover and secure the power supply to the location of your choice using the supplied screws or other fasteners if appropriate. The PS500 has been designed to mount on the rear of the Frac Rak chassis (right side as you face the rear) using 4-40 self tapping sheet metal screws.

These screws go from inside the PS500 and tap into the rear FR rail. It helps to pre-tap the FR holes with one of the screws before attempting to mount the PS500. A magnetic type screwdriver will also help to insert the screws. (You can magnetize a regular screwdriver by “wiping” it with a magnet; wipe in one direction only.)

The PS500 is designed to be mounted vertically for best ventilation. The access hole for the module power cables should be on the **top** of the box. When used at full capacity, the unit will generate significant heat and air flow around the unit should not be restricted.

2. Check the AC power cord connector window making sure that it reads the correct voltage for your location. If it needs to be changed, remove the power cord and use a small flat bladed screwdriver to pry out the section with the voltage window. (This section also contains the fuse). Slide out the small PCB and turn it over. Reinsert the PCB and look at the voltage window. Push the unit back into the power connector. If you are not in the US, you will have to purchase the correct IEC type power cord for your country at any good electrical store.

3. Feed the module power connectors through the large holes in the PS500 and connect to the power supply connectors. **Make sure they are all properly aligned and seated.**

4. Replace the PS500 cover and attach the AC power cord. Plug the power cord into a power strip with a switch. Plug the power strip into the wall. Your unit is now ready for use.

5. WARNING! Risk of electrocution.

- Do not attempt to connect or disconnect modules while the AC power is on.
- REMOVE the AC power cord before opening the PS500 box for any reason.
- Do not allow small children to play near the power supply.
- This unit is not intended for operation in wet areas.
- Refer all repairs to qualified electrical personnel.

6. The PS500 will supply +15VDC at 500mA and -15VDC at 500mA. **Exceeding these limits may cause power supply overheating and erratic operation of the modules.**

PSCONN2 is a power distribution system for modular synthesizer components. When used with the PS500 supply, up to 9 extra modules can be powered with +/-15V. The LED monitors the +/-15 supplies.

Mount using the plastic spacers and metal nuts. The “pronged” end of the spacer snaps into the back of the PCB. The threaded end goes through the inside of the rack side. Place the nuts on the outside of the rack side.

The PS500 plugs into the left side of the board using the PS500 to PSCONN2 cable. Make sure the AC power is disconnected before connecting or disconnecting the supply or the modules. Check all connections before restoring power.

You may add custom modules using the available connector kit. These units utilize crimp type connectors for which a crimp tool is usually used (Mouser PN 538-11-01-0015 or equiv.), although you can bend the tabs by hand and solder the wires in place. Be sure to use the suggested color code and place the pins in the proper position. The pins will slide into the housing and snap in place via a tiny tab. They can be removed by depressing the area near the tab with a tiny screwdriver.

