

Elfa Rack Charging Wall Assembly Notes

1. Start by fixing the top strip to the wall. 2m from the floor gives a good working height. It is suggested you use all fixing points as this rail will hold most of the weight of the completed charging wall.

It is advised *not* to fix to stud walling.

Position it near a power outlet, the mains cable is 3 metres long.

Suggest mounting the Power Distribution Unit panel(s) at the bottom of the rack.

2. Fix the Elfa adapters (metal strip with 2 hooks on the rear) to the charger panels:
 - a. Clip the captive nuts into the Elfa adapters



- b. Fix the Elfa adapters approximately half way across each slot in the edges of the panels using the screws and washers. The adapters are in pairs left and



right and hooks be located on the outside of the panels and hooks should point down so they can hook into the Elfa vertical rail . This will allow for any adjustment needed later. Tighten screws enough to hold in place.

3. Hang the vertical Elfa rails onto the top (horizontal) rail.
 - a. Position the vertical rails using the plates with adapters as a gauge:



- b. Hang a plate at the top of each set of rails and hang another at the bottom of each set of rails to ensure rails are set to right width and are parallel. Try to avoid mounting the plates over the bottom mounting holes in the vertical rails
- c. Ensure rails are vertical

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4. It is important to screw the vertical rails to the wall to ensure they stay hooked on the top rail:

- a. Mark the position of the holes at bottom of each rail on the wall.



You can use one or two of the holes nearest the bottom.

- b. Remove the plates and verticals, drill and insert rawlplugs and replace rails.
 - c. Screw the vertical rails to the wall.
 - d. Fit all plates starting at bottom plates and working up:
 - i. Fit the Power Distribution plate(s) first and untie all cables
 - ii. Fit remaining charging panels remembering to plug in the dc power jacks



- iii. If any hooks will not locate in the slots, adjust the position of one of the Elfa adapters by loosening the screws and sliding adapter(s) in or out until it hooks onto rails.

- e. There should be a 1 slot gap between each plate



5. Check all power plugs on the distribution panel to ensure none have come loose in transit.

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6. There is an earthing point at the bottom of the Power Distribution panel this can be connected to a suitable earthing point. The mains power components are all double insulated. If in doubt consult a qualified electrician.
7. Connect the mains power plug to a 240V wall outlet.
8. Check each charging cup with a Handheld PDA ensuring it charges.
 - a. If a cup does not charge but others in the same plate charge ensure the Handheld is inserted vertically in both planes.
 - b. If any whole panel of cups does not charge, check the dc power jack see 4.d.ii above.
9. If a trays do **not** receive power on no trays receive power:
 - a. Ensure the wall outlet has power.
 - b. Disconnect the Mains power plug
 - c. Remove the covers of PDU box(es), check all mains plugs are in place.
 - d. Re-apply power.
 - e. The blue light will illuminate on the power distribution strip(s).

If blue light shows go to step 9f or else :

 - i. Check red power trip (circled red below) is pushed in
 - ii. Check the power outlet and ensure the inlet plug (circled blue below) is firmly pushed into the power strip.



- iii. Check the fuse (13A) in the Mains power plug
- f. A green light should show on each power supply to show it is providing power to the charging panels and trays.



If any of the green lights do not show:

- i. Remove power to the panel at the wall.
- ii. Check the power plug is firmly pushed into the power supply
- iii. Check the plug is firmly pushed into the power strip. Bottom plug is left hand power supply, top plug is right hand power supply.
- iv. Reapply power to the panel and check all PSU lights.

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- v. If the power supply light still does not show it must be faulty so contact your supplier.
 - vi. If all OK, disconnect the power, replace the PDU cover(s), reconnect the power.
10. Once all trays are checked, the adapters need to be locked in place using the self tapping screws provided so they cannot accidentally un hook.



11. Congratulations, you now have a fully functioning Charging Wall.

If you have any questions please call your supplier Mark Roberts on 01993 852444 or mark@portablepowersolutions.com