

Options for mounting the PANVIEW iQ™ Power Supplies

After installing mounting brackets and Panel Managers (PMs) and/or Expansion Modules (EMs) into your PANVIEW™ iQ (PViQ™) Patch Panel, it is necessary to mount a PANVIEW™ iQ Power Supply (part # PVQ-PS12VDC-*) within reach of each PM to distribute power. Options for mounting vary per site and unique installations, due to variety of individual racks, cabinets, etc. As such, PANDUIT has tested a number of different mounting options to provide some choices for customer mounting preference.

Using a 3 RU Vented Shelf

This method of mounting provides a stable mounting base for up to 8 PViQ™ Power Supplies, using a 19" Cantilevered, Vented Aluminum Shelf (PANDUIT part # SRM19CMV3) and PANDUIT Cable Ties (see Notes).

- 1.) Place power supplies on their sides and line them up into two rows of no more than four power supplies each, leaving at least 1" of open space between them for proper ventilation (figure 1).
- 2.) Secure each power supply using the cable ties.
- 3.) Bundle power cords together and secure them to each other.
- 4.) Mount shelf to back side of rack or rack cabinet where power distribution to all served PMs can be easily accommodated, yet not interfere with the power connection or cable routing (as demonstrated in figure 2).

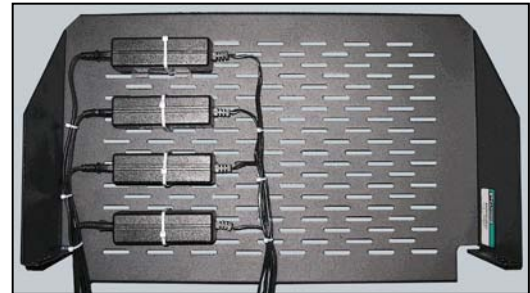


Figure 1: Top down view of a 3 RU shelf showing orientation of power supplies.

* denotes regional power supply part number

Using a 2 RU PANZONE® Wall Mount Horizontal Slack Manager Shelf

This method of mounting provides a stable mounting base for up to 10 PViQ™ Power Supplies, using a 19" Wall Mount Cabinet Horizontal Slack Manager Shelf (PANDUIT part # PZCHSM2) and PANDUIT Cable Ties.

- 1.) Remove the six mounted slack managers that come installed on shelf (easy to remove, requiring no tools)
- 2.) Place power supplies on their sides and line them up into two rows of no more than five power supplies each, leaving room between them for ventilation (as shown in figure 2).
- 3.) Secure each power supply using the cable ties.
- 4.) Bundle power cords together and secure them to each other.
- 5.) Mount shelf to back side of rack or rack cabinet where power distribution to all served PMs can be easily accommodated, yet not interfere with the power connection or cable routing (as demonstrated in figure 2).

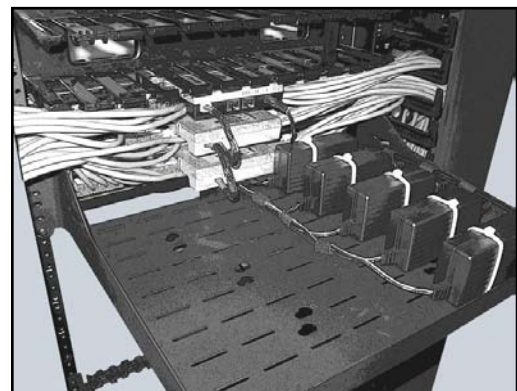


Figure 2: Notice that the power supplies in this configuration may block an EM or PM in the rack space above if shelf is not mounted at least 1 RU below a PViQ™ Patch Panel.

Using a 1 RU Front Mount Shelf

This method of mounting provides a stable mounting base for up to 10 PViQ™ Power Supplies, using a 19" Front Mounted 1 RU Shelf (PANDUIT part # SRM19FM1), PANDUIT Cable Ties (see Notes), and SUPER-GRIP™ Adhesive Backed Cable Tie Mounts (PANDUIT part # SGABM50-AT-L0)

- 1.) Using the measurements in the diagram (figure 3), position and adhere the cable tie mounts to the shelf, starting at .5" from the front lip and working backwards until you have two rows of side-by-side cable tie mounts, five deep.
- 2.) Place each power supply flat down, directly on top of each of the cable tie mounts (as shown in figure 4).
- 3.) Secure each power supply using the cable ties.
- 4.) Bundle power cords together and secure them to each other.
- 5.) Mount shelf to rack or rack cabinet directly below a PViQ™ Patch Panel, sliding the shelf into the rack from the front so that it attaches from the front but sticks out from the back.

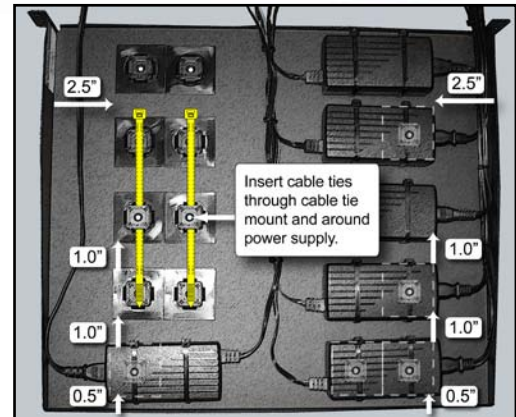


Figure 3: Top view of shelf showing placement of cable tie mounts and power supplies.



Figure 4: Rear view of rack showing power supplies placed on top of cable tie mounts and secured to shelf, which is mounted to rack from the front side.

Using a 1 RU Horizontal Cable Manager

This method of mounting provides a stable mounting of up to four PViQ™ Power Supplies within a 1 RU horizontal cable manager, using a 19" Front and Rear 1 RU Horizontal Cable Manager (PANDUIT part # WMPSE).

- 1.) Slide the two power supplies into the cable manager from the back, with one set on the right and the other on the left.
- 2.) Route DC and AC power cords out to the side of the cable manager.
- 3.) Slide the two remaining power supplies into the cable manager from the front, with one ON the right and other on the left (figure 5).
- 4.) Repeat step 2.
- 5.) Mount cable manager shelf to the rack or cabinet, directly above or below a PViQ™ Patch Panel or additional cable manager being used for cable routing.

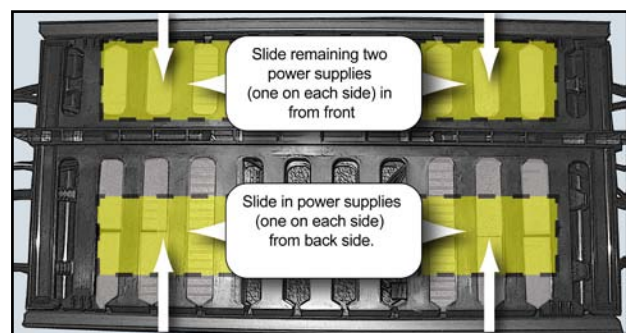


Figure 5: Top down view of 1 RU horizontal cable manager with four power supplies.

Using a 1 RU 4-Post Rack Mount Shelf

This method of mounting provides a stable mounting base for up to 12 *PViQ*[™] Power Supplies, using a 19" x 23" 1 RU 4-Post Rack Mount Shelf (*PANDUIT* part # NF4PSHLF19X23) and *PANDUIT* Cable Ties*.

- 1.) Place power supplies flat down at in a herring bone pattern on shelf and and line them up into two rows (as shown in figure 5).
- 2.) Secure each power supply using the cable ties.
- 3.) Bundle power cords together and secure them to each other.
- 4.) Install shelf bracket along backside of 4-port rack.
- 5.) Mount shelf to front side of rack or rack cabinet where power distribution to all served PMs can be easily accommodated, yet not interfere with the power connection or cable routing (as demonstrated in figure 2).



Figure 6: Top down view of 1 RU shelf showing orientation of power supplies.

NOTES:

- The attached *PViQ*[™] Power Supply DC cord is 5' long. Therefore, mounting hardware may need to be positioned near center of rack, and the DC cords may have to run up/down the middle of the rack, to ensure proper reach to PM modules
- *PANDUIT* Cable ties used for all examples include part #s: PLT2.5S to secure the *PANDUIT* Power Supply and PLT1M-C0 to secure *PANDUIT* Power Supply wiring and cords.

WARNING: Over tightening the PLT1M-C0 cable ties could compromise wire insulation.

These options are provided as suggested alternatives for mounting power supplies within a rack or cabinet. An optimal solution should be determined based on specific installation needs.