



Semi-knocked down floor cabinet

NPC-T42U61B
NPC-T47U61B

NPC-T27U66B
NPC-T32U66B
NPC-T37U66B
NPC-T42U66B

NPC-T27U68B
NPC-T32U68B
NPC-T37U68B
NPC-T42U68B

IMPORTANT SAFETY INFORMATION

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN LEAD TO SERIOUS INJURY, DEATH, OR DAMAGE TO YOUR EQUIPMENT



Carefully read and follow the safety instructions included in this manual before assembling and using the cabinet.

- ⚠ **Caution:** this product is heavy, at least two (2) qualified people should perform the assembly procedure. Care must also be taken while moving or positioning the equipment.
- ⚠ After the cabinet has been assembled, adjust the leveling feet for greater stability. When lowered correctly, the four leveling feet should support the full weight of the rack.
- ⚠ Use extreme caution when unpacking or removing the product parts from the boxes to avoid damaging or misplacing of parts.
- ⚠ Do not exceed the recommended load capacity and the maximum weight supported by the enclosure, as specified by the manufacturer's specifications. Failure to comply will void the warranty of this product.
- ⚠ Avoid rolling the cabinet on floors with uneven or rough surfaces to prevent casters from getting stuck in gaps or otherwise being unnecessarily damaged.
- ⚠ When rolling the cabinet on casters, push the cabinet from the front or rear only, to prevent the structure from tipping on its side.
- ⚠ **Caution:** use the recommended tools to avoid damaging the parts.
- ⚠ **CABINET TIPPING HAZARD:** ensure that the cabinet is properly stabilized and steady by extending the leveling feet after it is placed in its permanent location before any equipment is installed.



All parts of the unit must be properly grounded to the frame of the enclosure and connected to the Common Bonding Network (CBN) of your facility.

1. Introduction

Thank you for purchasing the semi-knocked down (SKD) floor cabinet from Nexxt Solutions. Each floor unit is housed in lockable heavy-gauge metal enclosure designed to house any rack-mounted components, such as server and storage units, modular network or voice switches, routers, telecommunication systems and IT equipment. Its split rear door design easily accommodates to any telecommunications room layout, by minimizing the space required for access behind the cabinet. Our floor cabinets provide more space for networking equipment, including the easy integration of rack PDUs and high-density cable managers. Built to EIA rack standards with square punched mounting holes, the equipment can be quickly attached inside the enclosure for data center or computer room applications. Enhanced cooling capabilities are made possible by the integration of a fan tray assembly. Product available in 600mm wide configuration, with 27, 32, 37, 42 and 47 rack spaces.

Main features

- 1764lb (800kg) maximum load capacity
- Frame construction reinforced with steel, specially made to support heavy weight
- Superior management system, with top and bottom access to cables and PDUs
- Lockable access to front and rear doors, as well as side panels
- Standard square-punched mounting rails for faster component loading
- The front door can turn 245 degrees and the rear door can be opened up to 245 degrees
- High-density mesh back doors provide outstanding ventilation to avoid overheating
- Its vertical PDU/cable management rail adds versatility for power and cable distribution inside the enclosure
- Each unit sits on four casters, for ease of deployment and mobility
- Adjustable leveling feet for added stability
- EIA-compliant mounting rail system can be easily adjusted for equipment varying depths
- U-rack units are numbered front and back for easy equipment integration
- Powder coat finish prevents damage caused by rust and other external factors

For support and to find out more about our complete line of products and solutions, we invite you to visit us at nexxtsolutions.com.

2. Preliminary steps

- Prior to installing this product, you must read all instructions thoroughly.
- Keep these instructions handy in an easily accessible location for future reference.
- A clean, flat, level, and protected floor area should be provided for cabinet assembly to prevent damage to parts.
- The installers may need to have the following items and tools available to assemble and install the cabinet. They are not included in the box.











1. Phillips screwdriver
2. Power drill with the following bits: Phillips-head tip
3. Pair of gloves
4. Long nose pliers
5. Cleaning towel
6. 3mx2m mat or padded surface







3. Product overview and components







Upon opening the box, make sure to inspect and account that all the items listed below are included.

Part ID	Item	Quantity	Image
Rack assembly components			
1	Front glass door with lock	1	
2	Top cover with fan tray assembly	1	

3	Split mesh rear door with lock	1		
4	Frame	2		
5	Horizontal beam	≤32U	4	
		≥32U	6	
6	Vertical rails (with rack unit markings)	4		
7	Bottom tray	1		
8	Side panel	2		
9	Side panel stopper	4		

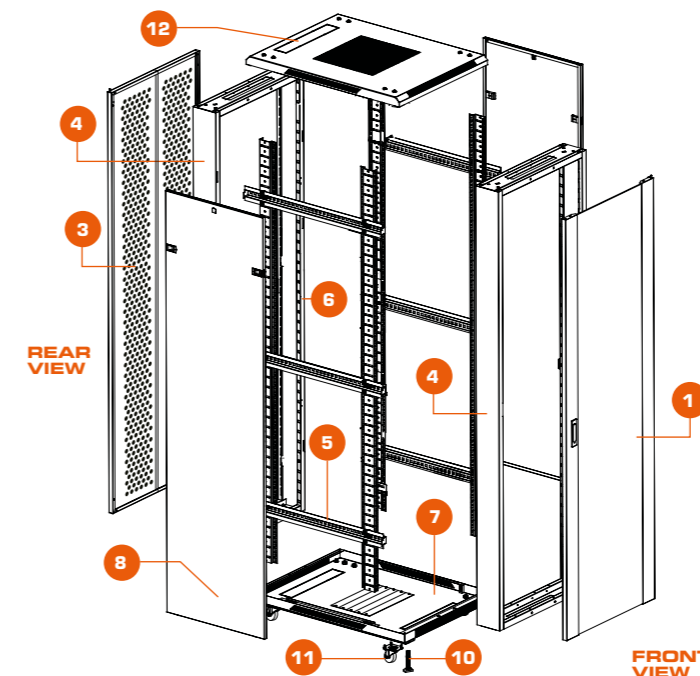
10	M12xL90 leveling foot	4	
11	Caster wheel	2 with brakes 2 without brakes	
12	Cable entry plate	3 (1 for top and 2 for bottom panel)	
13	Grounding cable with terminal rings	3 sets	
14	Bottom ventilation plate	pre-installed	
15	Front door key	1 set (2 keys)	
16	Rear door key	1 set (2 keys)	
17	Side panel key	1 set (2 keys)	

24	M4x8mm self-tapping screw	15			
25	Door hinge bushing	3			
26	L-shaped allen wrench	1			
Equipment mounting hardware		≤27U	>27 ≤37U	>37 ≤47U	
27	M6 cage nut	20	30	40	
28	M6 plastic washer	20	30	40	
29	M6x12mm phillips-head screw	20	30	40	
User manual					

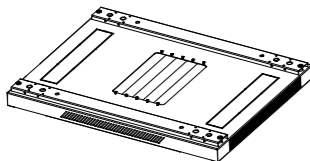
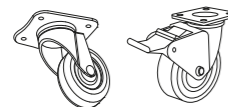



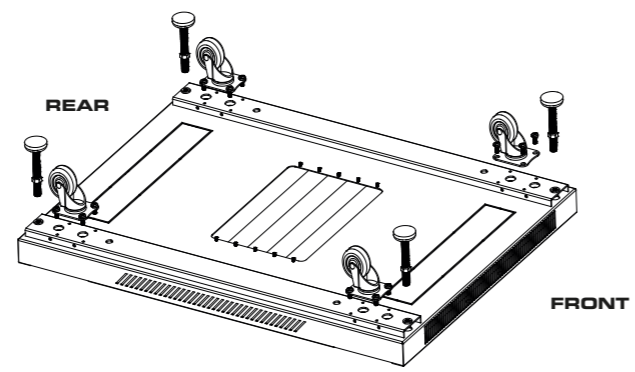
Rack assembly hardware		≤32U	≥32U	
18	M6 cage nut	40	48	
19	M6 plastic washer	40	48	
20	M6x12mm phillips-head screw	40	48	
21	M8x12mm hexagon socket head screw	16		
22	M8 flange nut	16		
23	M6x12mm self-taping screw	16		

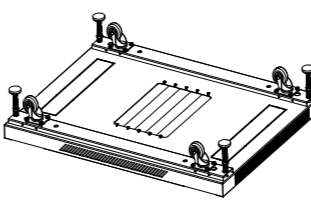
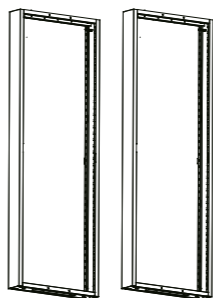
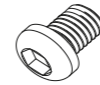


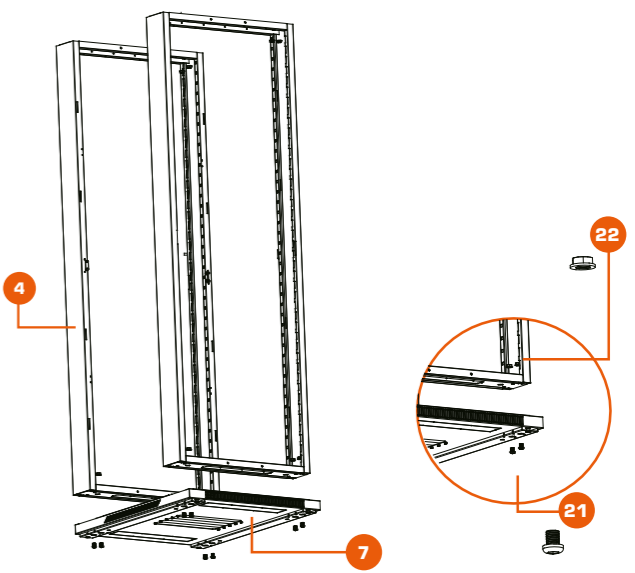
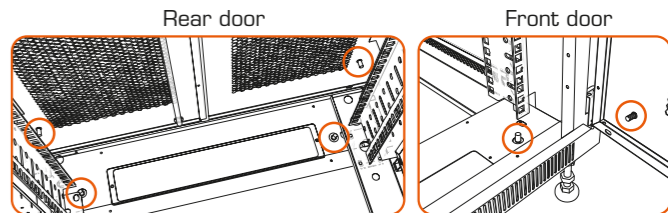
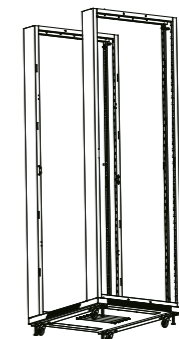
4. Assembly procedure (recommended)

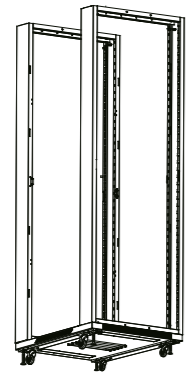
Upon opening the box, inspect the contents to ensure that all the items listed above are included:



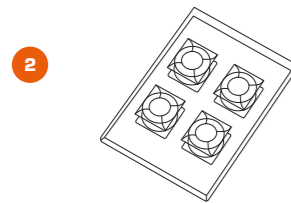
- The illustration provides an exploded view of all the enclosure components you are about to put together.
- Open the boxes and verify that all parts, hardware and accessories are included in the package.
- Inspect the cabinet components and identify each individual part to ensure proper assembly of the unit.

Phase	Required parts	Steps
1	<p data-bbox="264 272 310 302">7</p>  <p data-bbox="357 393 528 423">Bottom tray (1)</p> <p data-bbox="264 524 310 554">11</p>  <p data-bbox="341 604 528 685">Caster wheels (4) 2 with brakes 2 without brakes</p> <p data-bbox="264 796 310 826">10</p>  <p data-bbox="357 866 528 897">Leveling feet (4)</p> <p data-bbox="264 1008 310 1038">23</p>  <p data-bbox="264 1118 621 1149">M6x12mm self-tapping screws (16)</p> <p data-bbox="264 1219 310 1249">24</p>  <p data-bbox="264 1300 606 1330">M4x8mm self-tapping screws (4)</p>	<p data-bbox="730 201 1072 231">Installation of casters and feet</p> <p data-bbox="730 252 1398 312">1. Identify the 2 caster wheels with brake mechanism and the 2 regular caster wheels which will be used in the back of the cabinet.</p> <p data-bbox="730 332 1398 423">2. Align the two casters (with brakes) with the front mounting holes of the bottom tray and secure them firmly using four (4) of the supplied M6 self-tapping screws.</p> <p data-bbox="730 443 1398 514">3. Repeat the same procedure for the remaining casters to be placed in the rear section of the bottom tray.</p>  <p data-bbox="730 1209 1398 1270">4. Next, locate the mounting holes on each corner for the leveling feet.</p> <p data-bbox="730 1290 1398 1350">5. Screw the feet to the desired height, making sure all are positioned at the same level.</p> <p data-bbox="730 1370 1398 1461">Note: make sure not to fully extend the leveling feet to the floor until it is placed in its permanent location. Otherwise you will not be able to roll the cabinet using the casters.</p> <p data-bbox="730 1481 1398 1542">6. Proceed to install the two cable entry plates on the tray openings from the inside using four (4) M6 self-tapping screws.</p>

2	<p data-bbox="1818 272 1864 302">7</p>  <p data-bbox="1849 433 2144 463">Bottom tray subassembly (1)</p> <p data-bbox="1818 786 1864 816">4</p>  <p data-bbox="1926 917 2051 947">Frames (2)</p> <p data-bbox="1818 1068 1864 1098">21</p>  <p data-bbox="1849 1128 2128 1189">M8x12mm hexagon socket head screws (8)</p> <p data-bbox="1818 1350 1864 1380">22</p>  <p data-bbox="1895 1401 2082 1431">M8 flange nuts (8)</p> <p data-bbox="1818 1562 1864 1592">26</p>  <p data-bbox="1911 1622 2051 1653">Allen wrench</p>	<p data-bbox="2284 171 2657 201">Frame installation to bottom tray</p> <p data-bbox="2284 221 2952 312">1. Align the frame (left side first) with the mounting holes on the bottom tray. Using the M8 screws and M8 flange nuts, secure both parts together.</p> <p data-bbox="2284 332 2952 393">Note: make sure not to fully tighten the screws until all have been installed.</p> <p data-bbox="2284 413 2781 453">2. Repeat the same procedure for the right side.</p> <p data-bbox="2284 473 2952 534">Note: at this point, fully tighten all the screws to ensure proper stability of the structure.</p>  <p data-bbox="2284 1108 2952 1179">3. Make sure that the grounding post on the bottom frame aligns with the grounding posts of the front and rear doors.</p>  <p data-bbox="2284 1491 2797 1522">4. The bottom frame subassembly is now complete.</p> 
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Bottom tray subassembly



Top cover with fan tray assembly (1)

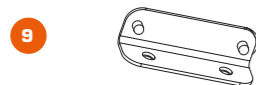
3



M8x12mm hexagon socket head screw (8)



M8 flanged nuts (8)



Side panel stoppers (4)



M4x8mm self-tapping screws (8)

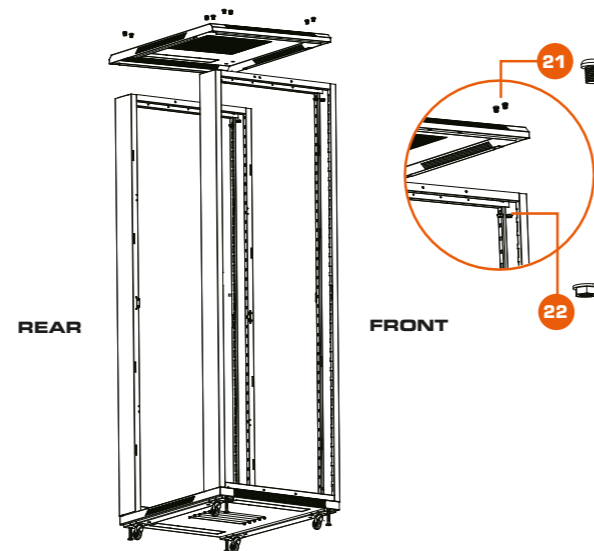


Allen wrench

Top cover assembly

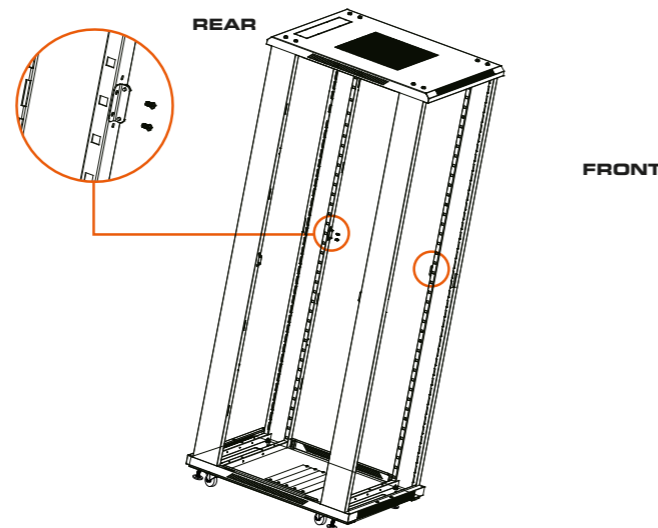
1. Align the frame (left side first) with the mounting holes on the top tray. Using the M8 screws and M8 flange nuts, secure both parts together.

Note: position the top tray with the cable entry plates pointing towards the rear section of cabinet. Make sure not to fully-tighten the screws until all have been installed.



2. Repeat the same procedure for the right side of the structure.

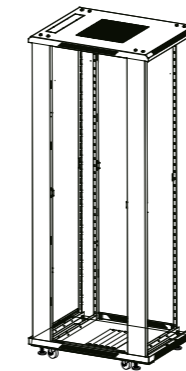
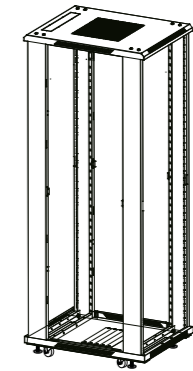
3. Locate the mounting holes of the side panel stoppers, on the right and left sides of the structure (front and rear), as per the illustration below. The rubber stud should be facing outwards.



4. Attach the stoppers to the frames using the supplied M4 self-tapping screws (2 per stopper).

Note: at this time, make sure to fully tighten all the screws.

5. The top and bottom frame subassembly is now complete.



Top and bottom frame subassembly

4



Top, middle and bottom beams (4 or 6)



M6 cage nuts (24)



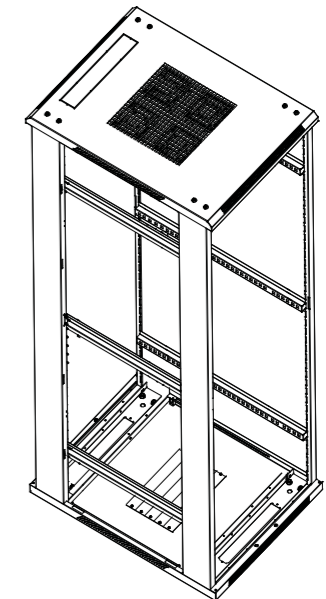
M6 plastic washers (24)



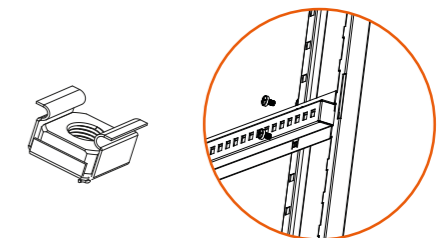
M6x12mm phillips-head screw (24)

Installation of horizontal beams

1. Decide the height of the beam installation in the structure, as per the mounting holes available in each section (top, middle and bottom).

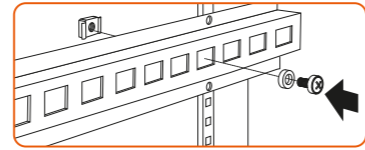


2. On the left frame, identify the mounting square holes, then insert an M6 cage nut in each one, with the tabs facing outward.



Note: make sure that both ends (front and rear) of the beam are placed at the same level.

3. Secure the assembly by inserting the M6 phillips-head screws and washers from the inside through the horizontal beam holes and into the cage nuts installed in the frames.



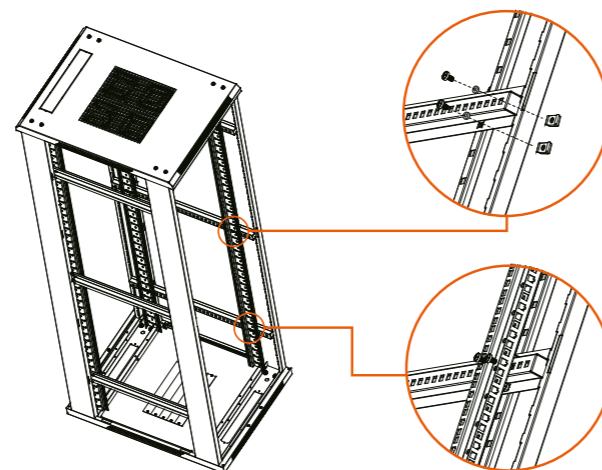
4. Repeat the same procedure for the installation on the right side.
5. After verifying that all beams are properly aligned, fully tighten all the screws fixing the horizontal beams to the frames.
6. Now the horizontal beam subassembly is ready for the next phase.

Installation of vertical rails

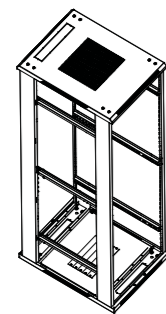
1. Using the structure with the beam subassembly, count up the number of square holes on the beam from the front and rear ends as needed, and insert two M6 cage nuts in each opening, with the tabs facing inward.
2. Repeat this procedure until the first twelve (12) cage nuts are installed on the left side.
3. Next, identify the 2 vertical perforated mounting rails.
4. Position the perforated mounting rails upright, so as to have the number of rack units stamped from high (top) to low (bottom) on each column.

Note: make sure that both ends (top and bottom) of the rail are placed at the same level. In addition, the row of numbers on each vertical rail must be facing each other, on the front and rear sections of the unit.

5. Proceed to insert the M6 phillips-head screws and plastic washers from the inside through the vertical mounting rails and into the cage nut installed in each horizontal beam.

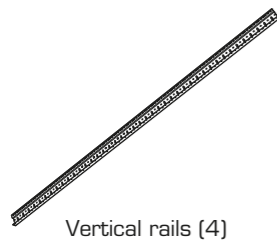


6. Repeat steps 1 through 5 for the right side.
- Note:** fully tighten the screws only after each pair of screws has been inserted.



Horizontal beam subassembly

6



Vertical rails (4)

5

18



M6 cage nuts (24)

19

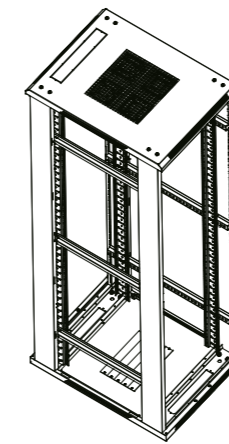


M6 plastic washers (24)

20

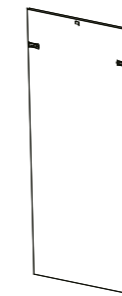


M6x12mm phillips screws (24)



Vertical rail subassembly

8



Side panels (2)

6

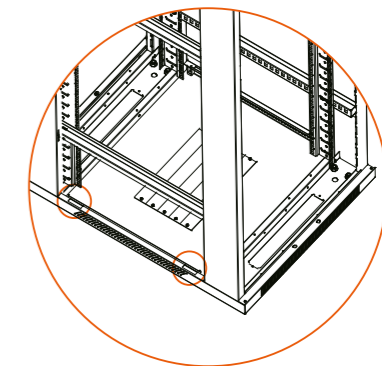
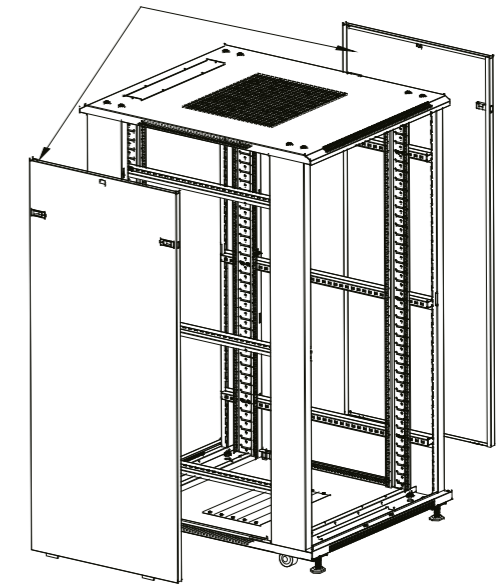
17



Side panel key set (1)

Installation of side panels

1. Next, identify the 2 lateral panels. Both are identical for this model.
2. Align the tabs located on the bottom of each side panel with the openings of the bottom tray.

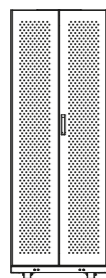


3. Slide the plastic retaining latches on both sides of the panel to their unlock position.
4. Push side panels against the support frames and release the plastic retaining latches so as to re-engage them to their locked position.

Note: each side panel features a pre-install key lock for securing both sides of the enclosure. Insert the side panel key and turn it clockwise to verify that the locking mechanism is working properly.

7

3



Split mesh rear door with lock (1)

25



Hinge bushings (2)

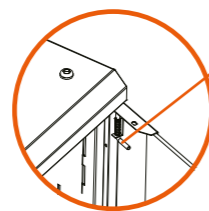
16



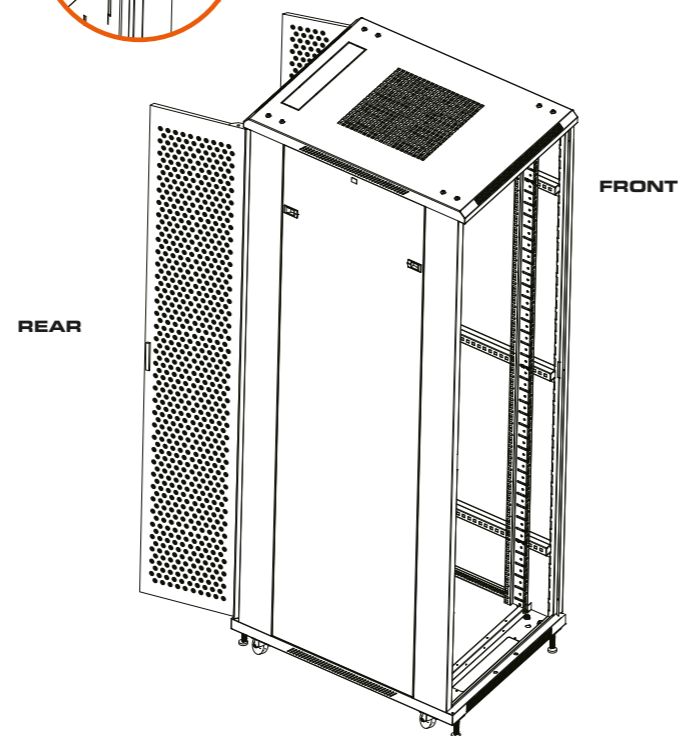
Rear door key set (1)

Rear door assembly

1. Identify the split rear door, bushings and pivot pins.
2. Insert the first bushing into the pivot pin at the bottom of the door and hold it in place.
3. While supporting the door, align the bottom pivot pin with the hinge hole on the frame, until it latches into position.
4. Next, pull down the pivot pin on the upper side of the door, align it with the top hinge hole on the frame, and finally release it to secure it into the enclosure.



Pivot pin



5. Repeat the same steps to mount the other side of the door.
6. Verify that the doors are properly levelled and that both sides open and close without friction or resistance.
7. Confirm that the door locks properly by closing the left door first, followed by the right side door.
8. Lock the doors in position by inserting the key and turn it clockwise to verify that the locking mechanism is working properly.

8

1



Front door (1)

25



Hinge bushing (1)

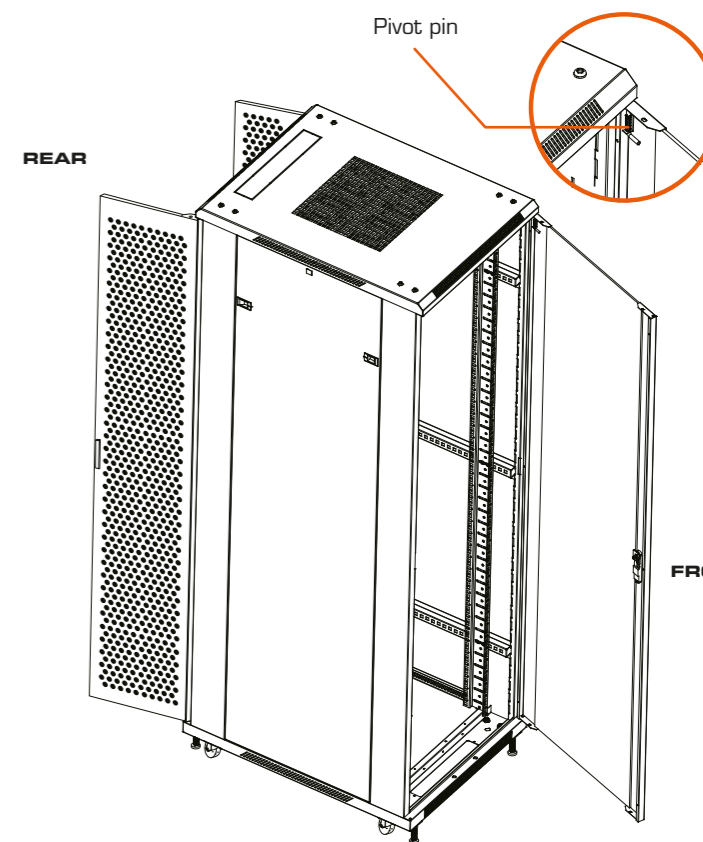
15



Front panel key set (1)

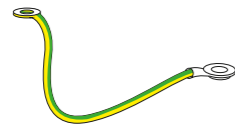
Front door assembly

1. Identify the front door, bushing and pivot pins.
2. Insert the bushing into the pivot pin at the bottom of the door and hold it in place.
3. While supporting the door, align the bottom pivot pin with the hinge hole on the frame, until it latches into position.
4. Pull down the pivot pin on the upper side, align it with the top hinge hole on the frame, and release to secure it into the enclosure.



5. Verify that the door is properly levelled and that it opens and closes without friction or resistance.
6. Confirm that the door locks properly by pushing the handle inward, insert the key in the lock and turn it clockwise.
7. Push the button to verify that the locking mechanism is engaged.
8. To open the door, turn the key counterclockwise and push the button to release the handle from its locking position.

13



Grounding cables with terminal rings (3 sets with copper split and flat washers)

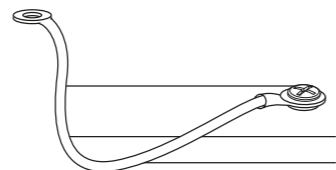
24



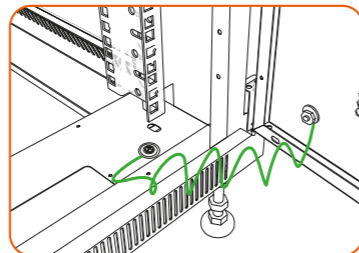
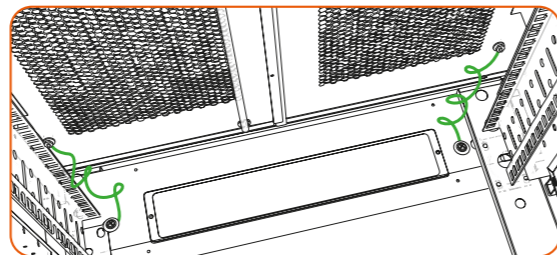
M4 self-tapping screw (1)

Grounding connection

1. Connect the first grounding cable to the door using the provided hardware.



2. Likewise, connect the other end of the grounding cable to the grounding post of the bottom tray using the hardware provided.



3. Next, connect the second grounding cable to the grounding post of the rear door on the left side.

4. Then connect the other end of the grounding cable to the grounding post of the bottom tray.

5. Repeat the same step for the door of the right side.

Note: fully-tighten the screws only after all the screws have been inserted.

27



M6 cage nuts (20, 30 or 40)

28



M6 plastic washers (20, 30 or 40)

29



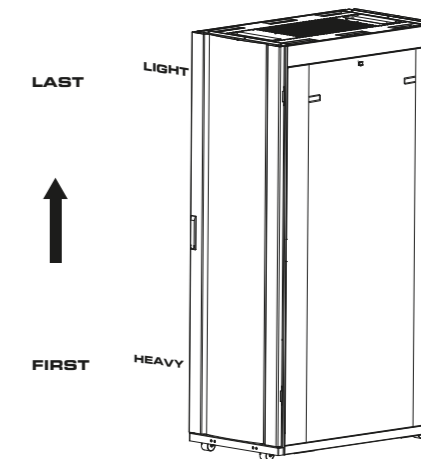
M6x12mm phillips-head screws (20, 30 or 40)

Equipment installation

The enclosure is now assembled and ready for equipment installation.

1. Do not install any equipment until you have stabilized the structure.

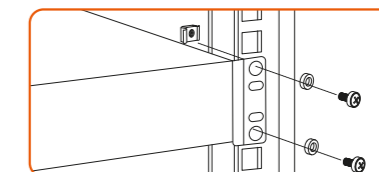
2. Always load the heavier items at the bottom first, followed by the lighter equipment at the top of the enclosure, for safety reasons.



3. Identify the second and third square holes from the front (left and right) and rear (left and right) ends and insert an M6 cage nut in each opening, with the tabs facing inward.

4. Repeat this procedure until all M6 cage nuts are installed in the square holes of the front and back rails.

5. Proceed to insert the M6x12mm phillips-head screws and plastic washers from the inside through the vertical mounting rails and into the nuts you installed in the previous step.



6. Finish by tightening the screws to secure the equipment inside the enclosure.

Note: the square holes on the vertical rails are numbered to easily identify each mounting point.

