

# 12U 4 Post Server Equipment Open Frame Rack Cabinet



*Actual product may vary from photos*

## User Manual

SKU#: 4POSTRACK12

# Compliance Statements

## **Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols**

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# Safety Statements

## Safety Measures

- Wiring terminations should not be made with the product and/or electric lines under power.
- Product installation and/or mounting should be completed by a certified professional as per the local safety and building code guidelines.
- Cables (including power and charging cables) should be placed and routed to avoid creating electric, tripping or safety hazards.

## Mesures de sécurité

- Les terminaisons de câblage ne doivent pas être effectuées lorsque le produit et/ou les câbles électriques sont sous tension.
- L'installation et/ou le montage du produit doit être réalisé par un professionnel certifié et dans le respect des normes locales et du code de construction local.
- Les câbles (y compris les câbles d'alimentation et de chargement) doivent être placés et acheminés de façon à éviter tout risque électrique, de chute ou de sécurité

## 安全対策

- 電源が入っている状態の製品または電線の終端処理を行わないでください。
- 製品の設置やマウントは、使用地域の安全ガイドラインおよび建築基準に従い、有資格の専門業者が行うようにしてください。
- ケーブル(電源ケーブルと充電ケーブルを含む)は、適切な配置と引き回しを行い、電気障害やつまづきの危険性など、安全上のリスクを回避するようにしてください。

## Misure di sicurezza

- I terminali dei fili elettrici non devono essere realizzate con il prodotto e/o le linee elettriche sotto tensione.
- L'installazione e/o il montaggio dei prodotti devono essere eseguiti da un tecnico professionale certificato che conosca le linee guida locali sulle norme edilizie e sulla sicurezza.
- I cavi (inclusi i cavi di alimentazione e di ricarica) devono essere posizionati e stesi in modo da evitare pericoli di inciampo, rischi di scosse elettriche o pericoli per la sicurezza.

## Säkerhetsåtgärder

- Montering av kabelavslutningar får inte göras när produkten och/eller elledningarna är strömförda.
- Installation och/eller montering får endast göras av behöriga yrkespersoner och enligt gällande lokala förordningar för säkerhet och byggnormer.
- Kablar (inklusive elkablar och laddningskablar) ska dras och placeras på så sätt att risk för snubblingsolyckor och andra olyckor kan undvikas.

## Warning Statements

- Make sure that you assemble this product according to the instructions.
- Do not exceed the weight capacity of this product. Overloading this product might result in injury or property damage. This product can support the following weight: Stationary = 1000 lb. (453 kg).
- This product is intended for indoor use only and should not be used outdoors.
- This enclosure is extremely heavy. Never attempt to move or lift this enclosure without assistance.
- Tipping hazard! Extending multiple components from this enclosure increases the chance that the enclosure will tip over. To avoid this risk, do not extend more than one component from the enclosure.
- Do not place any items on this enclosure and do not stack the enclosure on top of another enclosure.
- Keep liquid away from this enclosure.
- Make sure that you install the enclosure in an area that can handle the combined weight of the enclosure and the equipment that you intend to place inside of the enclosure.
- This product requires an earth ground connection. Do not use this product without an earth ground connection.

## Varningar

- Se till att du monterar produkten i enlighet med instruktionerna.
- Överskrid inte produktens vikt kapacitet. Överbelastning av denna produkt kan leda till skador eller skador på egendom. Denna produkt kan stödja följande vikt: stationär: 453 kg.
- Produkten är endast avsedd för användning inomhus och ska inte användas utomhus.
- Detta skåp är extremt tungt. Försök aldrig flytta på skåpet eller lyfta det utan hjälp.
- Risk för vältning! Att förlänga flera komponenter från detta skåp ökar risken

för att det välter. Förläng inte fler än en komponent från skåpet för att undvika risk.

- Placera inte saker ovanpå skåpet och ställ inte skåpet ovanpå ett annat skåp.
- Håll vätskor borta från skåpet.
- Se till att du installerar skåpet på en plats som kan hantera den kombinerade vikten av skåpet och utrustningen som du tänker placera inuti.
- Produkten behöver en jordad anslutning. Använd inte produkten utan en jordad anslutning.

## Avertissements

- Assemblez ce produit conformément aux instructions.
- Ne dépassez pas la capacité pondérale de ce produit. Une surcharge de ce produit peut entraîner des dommages corporels ou matériels. Ce produit peut supporter le poids suivant, stationnaire = 453 kg.
- Ce produit est uniquement destiné à une utilisation en intérieur et ne doit pas être utilisé à l'extérieur.
- Ce rack de serveur est extrêmement lourd. Ne tentez jamais de le déplacer ou de le soulever sans aide.
- Risque de basculement ! L'extension de plusieurs composants à partir du rack de serveur augmente le risque de basculement. Pour éviter ce risque, n'étendez pas plus d'un composant à partir du rack de serveur.
- Ne placez aucun objet sur ce rack de serveur et n'empilez pas le rack sur un autre rack.
- N'approchez aucun liquide du rack de serveur.
- Veillez à installer le rack de serveur dans un endroit pouvant supporter le poids combiné du rack et des équipements que vous comptez placer à l'intérieur.
- Ce produit nécessite un raccordement à la terre. N'utilisez pas ce produit sans raccordement à la terre.

## Warnhinweise

- Beachten Sie bei der Montage dieses Produkts die Montageanweisungen.
- Überschreiten Sie nicht die Tragfähigkeit dieses Produkts. Das Überladen dieses Produkts kann zu Verletzungen oder Sachschäden führen. Dieses Produkt kann das folgende Gewicht tragen: Stationär = 453 kg.
- Dieses Produkt ist nur zum Gebrauch in Innenräumen vorgesehen und sollte nicht im Freien verwendet werden.
- Dieses Gehäuse ist extrem schwer. Versuchen Sie niemals, dieses Gehäuse ohne Hilfe zu bewegen oder anzuheben.
- Kippgefahr! Das Ausziehen mehrerer Komponenten aus diesem Gehäuse

erhöht die Chance, dass das Gehäuse umkippt. Um dies zu vermeiden, ziehen Sie niemals mehr als eine Komponente aus diesem Gehäuse aus.

- Platzieren Sie keine Gegenstände auf dem Gehäuse und stapeln Sie das Gehäuse nicht auf einem anderen Gehäuse.
- Halten Sie Flüssigkeiten von diesem Gehäuse fern.
- Vergewissern Sie sich, dass der Untergrund, auf dem das Gehäuse aufgestellt wird, in der Lage ist, das Gesamtgewicht des Gehäuses und der Geräte, die Sie darin platzieren möchten, zu tragen.
- Dieses Produkt erfordert einen Schutzleiteranschluss. Verwenden Sie das Produkt nicht ohne einen Schutzleiteranschluss.

## **Dichiarazioni di avvertenza**

- Assicurarsi di Assemblare il prodotto secondo le istruzioni.
- Non superare la capacità di carico massimo di questo prodotto onde evitare danni o lesioni alla proprietà. Questo prodotto e' in grado di supportare il peso riportato, Statico = 453 kg.
- Il prodotto è destinato all'uso in ambienti interni. Se ne sconsiglia l'impiego in ambienti esterni.
- Il box esterno è molto pesante. Non tentare di spostarlo o sollevarlo senza assistenza.
- Pericolo di ribaltamento! L'estensione di più componenti dal box esterno aumenta il rischio di ribaltamento del box esterno. Per evitare questo rischio, non estendere più di un componente dal box esterno.
- Non collocare oggetti sul box esterno e non impilare un box esterno sopra un altro.
- Tenere il box esterno lontano dai liquidi.
- Assicurarsi di installarlo in un punto che possa sorreggere il peso combinato del box esterno e dell'apparecchiatura che si intende collocare al suo interno.
- Il prodotto richiede una messa a terra. Non utilizzare il prodotto in assenza di una messa a terra.

## **Mensagens de aviso**

- Certifique-se de que monta este produto de acordo com as instruções.
- Não exceda a capacidade de peso deste produto. Sobrecarregar este produto pode resultar em ferimentos ou danos à propriedade. Este produto pode suportar o seguinte peso: estacionário: 453 kg.
- Este produto destina-se apenas a uma utilização no interior e não deve ser utilizado no exterior.
- Esta caixa é extremamente resistente. Nunca tente mover ou levantar esta caixa sem assistência.

- Perigo de queda! Estender vários componentes desta caixa aumenta a probabilidade desta caixa cair. Para evitar este risco, não expandir mais de um componente desta caixa.
- Não colocar nenhum artigo nesta caixa e não empilhar a caixa em cima de outra caixa.
- Manter líquidos afastados desta caixa.
- Certifique-se de que instala a caixa numa área que pode suportar o peso combinado da caixa e o equipamento que pretende colocar dentro da caixa.
- Este produto requer uma ligação à terra. Não utilize este produto sem uma ligação à terra.

## Advertencias de uso

- Asegúrese de ensamblar este producto según las instrucciones.
- No exceda la capacidad de carga de este producto. El sobrecargarlo puede ocasionar lesiones y daños en propiedad. Este producto puede soportar el siguiente peso, Estacionario = 453 kg.
- El uso de este producto es solo para interiores y no debe utilizarse en exteriores.
- La caja es extremadamente pesada. Nunca intente mover o alzar esta caja sin la debida asistencia de otra persona.
- ¡Peligro de vuelco! Añadir a esta caja varios componentes aumenta las posibilidades de peligro de vuelco de la caja. Para evitar dicho riesgo, no añada más que un solo componente.
- No coloque ningún elemento encima de la caja y no apile la caja encima de otra caja.
- Mantenga cualquier líquido lejos de la caja.
- Asegúrese de instalar la caja en un área que tenga capacidad para soportar el peso combinado de la caja y el equipo que va a instalar dentro de la misma.
- Este producto requiere conexión a tierra. No utilice este producto sin conexión a tierra.

## Waarschuwingen

- Zorg dat u dit product volgens de instructies in elkaar zet.
- Overschrijd de maximale capaciteit van dit product niet. Overbelasting De maximale gewichtscapaciteit mag niet overschreden worden. Overbelasting kan kan letsel of schade tot gevolg hebben. Dit product kan het volgende gewicht ondersteunen, stationair = 453 kg.
- Dit product is alleen bedoeld voor binnengebruik en mag niet buiten worden gebruikt.
- Deze behuizing is enorm zwaar. Probeer nooit deze behuizing te verplaatsen

- of op te tillen zonder hulp.
- Kantelgevaar! Wanneer meerdere componenten uit deze behuizing steken, bestaat de kans dat deze zal kantelen. Om dit risico te voorkomen, mag niet meer dan één component uit de behuizing steken.
  - Plaats geen voorwerpen op deze behuizing en stapel de behuizing niet op een andere behuizing.
  - Houd vloestof uit de buurt van deze behuizing.
  - Zorg dat u de behuizing installeert op een plaats die geschikt is voor het gecombineerde gewicht van de behuizing en de apparatuur die u in de behuizing wilt plaatsen.
  - Dit product vereist een gearde verbinding. Gebruik dit product niet zonder een gearde verbinding.

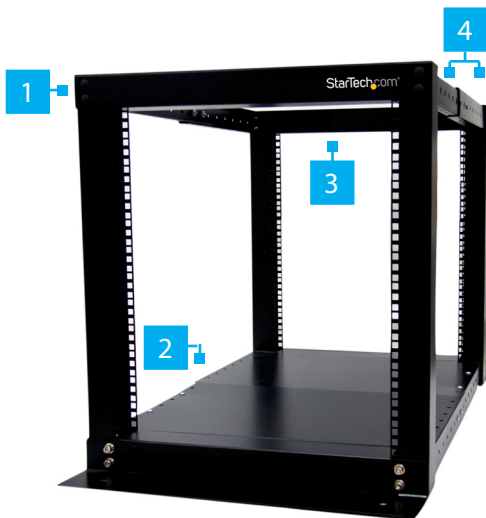
## 注意

- 必ず取扱説明書に従って本製品の組み立てを行って下さい。
- 本製品で定められた可搬重量を超えないようにして下さい。規定された重量を超えた場合、怪我や物的損害が発生することがあります。本製品は次の可搬重量に対応しています。[ キュスター静止時 ] = 453 kg
- 本製品は、室内での使用を想定しています。戸外では使用しないで下さい。
- 本製品は、非常に重いエンクロージャです。絶対に一人で持ち上げたり動かしたりしないで下さい。
- 転倒注意! 本製品から複数のコンポーネントが突き出した状態にしておくとうエンクロージャが転倒する恐れがあります。転倒リスクを回避するために、エンクロージャからはコンポーネントが突き出ないようにして下さい。
- 本製品の上に何も載せないで下さい。複数のエンクロージャを重ねて設置しないで下さい。
- 液体物をエンクロージャに近づけないようにして下さい。
- エンクロージャ自身と中に積載する装置の総重量に耐えられるエリアに設置して下さい。
- この製品にはアースが必要です。アース接続をしていない状態で本製品を使用しないでください。

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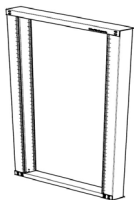
## Product Diagram



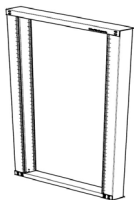
<b>1</b>	Front Frame	<b>2</b>	Floor Plates x 2
<b>3</b>	Rear Frame	<b>4</b>	Adjustable Arms x 8

## Product Information

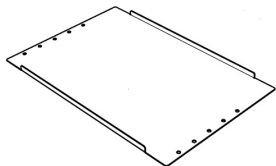
### Packaging Contents



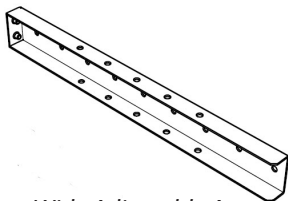
*Front Frame*  
Qty: One



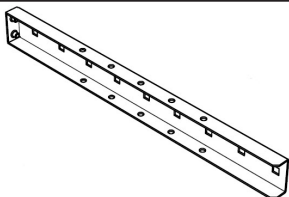
*Rear Frame*  
Qty: One



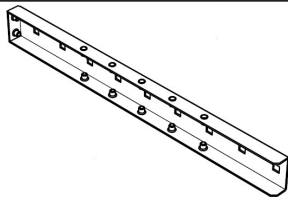
*Floor Plates*  
Qty: Two



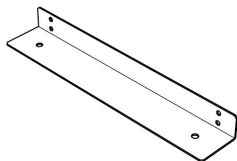
*Wide Adjustable Arms*  
Qty: Four



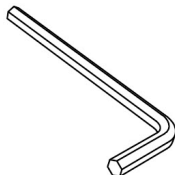
*Narrow Adjustable Arms*  
Qty: Two



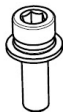
*Narrow Adjustable Arm w/riquet nut*  
Qty: Two



*Floor Mounting Brackets*  
Qty: Two



*Hex Key*  
Qty: One



*M8x25 Hex Socket Screws*  
Qty: Eight



*M5x15 Truss Head Screws*  
Qty: Forty two



*Bushing Caps*  
*Qty: sixteen*



*Cage Nuts*  
*Qty: Twenty Four*



*Cage Nut Screws*  
*Qty: Twenty Four*

## Tools Required

- Phillips Head Screwdriver
- Cage Nut Tool

## Installation

1. Prior to assembling the **Rack Cabinet**, make sure that the **Front Frame** and **Rear Frame** are right side up. The bottom of the **Front** and **Rear Frames** has holes for floor mounting brackets and casters.



*Caster Holes on Bottom of Front and Rear Frames*

2. Separate the **Adjustment Arms** into pairs (one wide and one narrow arm per pair). You will have four pairs of arms, two to connect the top of the **Frames** together and two to connect the bottom of the **Frames** together.

**Note:** The narrow arms that connect the bottom of the frames can be identified by the pre-mounted riveted nuts on the inside of the arms.



*Bottom Frames with Pre Installed Riveted Nuts*

3. On the **Adjustment Arms**, insert the **Cage Nuts** (at least 2 per Adjustment Arm) into the **Cage Nut** holes.

**Note:** It is recommended that you install several cage nuts on each arm to allow for future depth adjustments.

4. Determine the desired mounting depth of your **Rack Cabinet**.
5. Align the **Cage Nuts** on the narrow **Adjustment Arm** with the **Mounting Holes** on the wide **Adjustment Arm**.
6. Insert the two **M5x15 Truss Screws** through the **Mounting Holes** on the wide **Adjustment Arm** and into the **Cage Nuts** on the narrow **Adjustment Arm**.



M5x15 Truss Screw

**Note:** the wide **Adjustment Arm** should be the outer arm and the narrow **Adjustment Arm** should fit inside of the wider **Adjustment Arm**.

- Repeat Steps 5 - 6 to assemble the remaining 3 **Adjustment Arm Assemblies**.
- Align the **Adjustment Arms Assembly** with the **Mounting Holes** on the **Front Frame**.

**Note:** For stability, StarTech.com recommends that you have use at least two screws to secure the rack arms.

- Insert two **M5x15 Truss Head Screws** through the frame and into the **Adjustment Arm Assembly**.



*M5x15 Truss Head Screw*

- Using the **Phillips Head Screwdriver**, tighten the **M5x15 Truss Head Screws** being careful not to over-tighten.



*Securing the Frame to the Adjustment Arm Assembly*

- Repeat steps 8 - 10 to connect the bottom **Adjustment Arm Assemblies** to the **Front** and **Rear Frames**.

- Align the **Floor Mounting Bracket** (L-shaped bracket) with the **Mounting Holes** on the bottom of the **Frame**.
- Insert the **M8x25 Hex Screws** (4 per bracket) through the **Floor Mounting Bracket** and into the **Mounting Holes** on the **Frame**.



*M8x25 Hex Screws*

- Repeat steps 12 - 13 to connect the other **Floor Mounting Bracket** to the **Rear Frame**.
- Align the **Screw Holes** on one of the **Floor Plates** (with two flaps) with the **Screw Holes** on the lower **Adjustment Arm Assembly**.
- Insert two **M5x15 Truss Screws** through the **Floor Plate** and into the lower **Adjustment Arm Assembly**.



*Securing the Floor Plate to the Adjustment Arm Assembly*

- Align the **Screw Holes** on the second **Floor Plate** (with one flap) with the **Screw Holes** on the lower **Adjustment Arm Assembly**.

**Note:** *The second Floor Plate will overlap the first Floor Plate.*

**Note:** When adjusting the depth, please note that the maximum depth that allows the Floor Plates to be bolted down is 29.9in (76cm). You can go beyond this depth safely up to 39.3in (100cm) however it will no longer be possible to secure the floor panels to the rack frame using the bolts. This will have no effect on the rack's weight capacity.

18. Insert two **M5x15 Truss Screws** through the **Floor Plate** and into the lower **Adjustment Arm Assembly**.

## Using the Bushing Caps

The **Rack Cabinet** comes with a set of 16 **Bushing Caps**. The **Bushing Caps** can be used to hide the 8 **M5x15 Truss Screws** used to assemble the **Adjustment Arms** to the **Front** and **Rear Frames**. Using the **Bushing Caps** will create a more unified finish.

1. Align the **Bushing Caps** with each of the **Screw Heads** on the **M5x15 Truss Screws** (x 8) used to assembly the **Adjustment Arms** to the **Front** and **Rear Frames**.
2. Gentle push the **Bushing Caps** into the **Screw Head**.

## Mounting Equipment in the Rack

**Note:** When installing equipment in the **Rack Cabinet**. Start at the bottom of the **Rack Cabinet** with the heaviest equipment and work your way to the top.

1. Determine the U-space of your equipment and where in the **Rack Cabinet** you want to install the **Devices**.
2. Apply pressure to both sides of the **Cage Nut** and insert the **Cage Nut Clamps** into the **Cage Nut Hole** and release the **Cage Nut**.

- or -

Use a **Cage Nut Wrench** to install the **Cage Nuts** into the **Rack Cabinet**.

3. Use the **M5 Screws** to secure the **Devices** in place.
4. If your **Device** has mounting brackets with hooks, just hook the bracket in the desired location.

## Optional Installation

### Securing the Rack Cabinet to a Flat Surface

You can use four **Bolts** (sold separately) to secure the **Rack Cabinet** to the ground.

**Note:** *Pilot holes may need to be drilled in the surface you are securing the **Rack Cabinet** to prior to installation.*

- Insert four **Bolts** through the **Floor Plate Bolt Holes** and into the surface you are securing the **Rack Cabinet** to.



*Bolt Holes*

### Installing Casters

You can install **Castors** (sold separately) on the bottom of the **Rack Cabinet**.

**Note:** *Before installing **Castors** you will need to lay the **Rack Cabinet** on it's side. Please ensure that all equipment is*

*removed and the **Rack Cabinet** is empty before attempting to install the **Casters**.*

1. Align the **Mounting Holes** on the **Caster** with the **Caster Holes** on the bottom of the **Rack Frame**.
2. Insert a **Caster Screw** through the **Caster Mounting Hole** and into the **Caster Holes** on the bottom of the **Frame**.



*Installing the Caster*

3. Repeat **Steps 1 and 2** for the remaining **Caster Screws**.

## Warranty Information

This product is backed by a lifetime warranty.

For further information on product warranty terms and conditions, please refer to [www.startech.com/warranty](http://www.startech.com/warranty).

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