PC-350V-12 and PC-350V-18

Quick Start

Vertical Networked Power Controller & Conditioner with Surge Protection and Metering

The PC-350V-12 and PC-350V-18 are vertical rack-mountable power controllers. They provide 120VAC power distribution, switching, surge protection, noise filtering, and energy monitoring for Crestron® control systems, AV systems, computers, and other equipment.

In the Box

Qty.	Description
1	PC-350V-12 or PC-350V-18
	Additional Items
1	Power cord, 9.8 ft (3 m) (2059050)
2	Mounting brackets (2059048)
4	Mounting screws (2059046)
	Spare parts
1	Keyhole mount (2059993)

Install the Device

Rack Mounting Safety Precautions

Elevated Operating Ambient Temperature: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Reduced Airflow: Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

WARNING: If using a shielded Ethernet cable, exercise additional caution in verifying the inlet ground connection is established. The power controller may see a shielded Ethernet cable as a ground connection without an established life safety ground connection available at the inlet.

AVERTISSEMENT: En cas d'utilisation d'un câble Ethernet blindé, faire preuve d'une plus grande prudence lors de la vérification de la prise de parc d'entrée. Le contrôleur d'alimentation peut considérer un câble Ethernet blindé comme une prise de parc sans qu'une prise de parc de sécurité soit disponible à l'entrée.

CAUTION: If connected to a device that removes the neutral to earth bonding, such as a UPS (Uninterrupted Power Supply), disable the Full Fault Protection setting in the Web UI to prevent a false fault detection. Disabling Full Fault Protection prevents the device from detecting a miswire condition or detecting if some of the surge protection is compromised.

AVERTISSEMENT: Dans le cas où le câble est connecté à un appareil qui retire le conducteur neutre de la connexion à la terre, tel qu'un UPS (Unité d'alimentation permanente), désactiver le paramètre de la protection complète contre les pannes de l'interface utilisateur Web afin d'empêcher la détection d'une fausse erreur. La désactivation du paramètre de la protection complète contre les pannes empêche l'appareil de détecter une situation de mauvais raccordement ou de détecter si une partie de la protection contre les surtensions est compromise. La désactivation du paramètre de la protection complète contre les pannes annulera la garantie de protection de l'équipement connecté du PC-350 V. Votre UPS peut fournir une garantie de protection de l'équipement connecté dans ce cas.

Use one of the following procedures to mount the power controller into a rack:

- Toolless Mounting

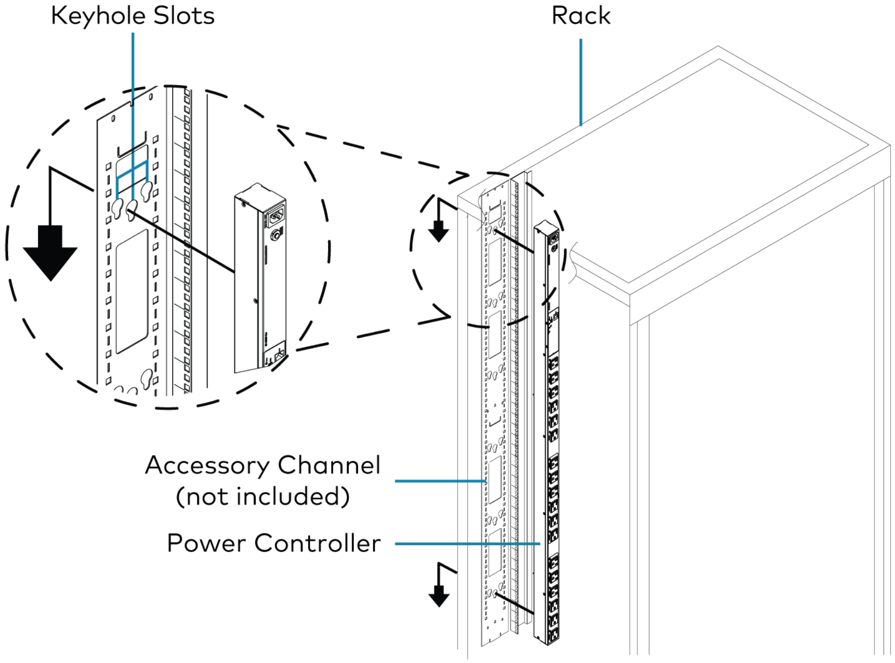
  NOTE: For toolless mounting, the rack must have keyhole slots on the rack frame or accessory channels with keyhole slots.

- Mounting the Device With Keyhole Mounts
- Mounting the Device Without Keyhole Mounts

NOTE: Unless otherwise indicated in this guide, the installation procedure is the same for PC-350V-12 and PC-350V-18.

Toolless Mounting

1. Align the keyhole mounts on the rear of the device to the keyhole slots on the rack frame or the accessory channel.
2. Insert and slide the device down to lock firmly into position.

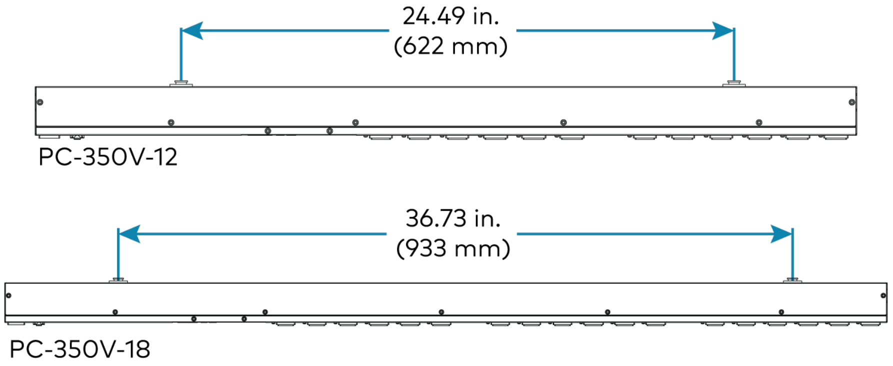


Mounting the Device With Keyhole Mounts

1. Use the rack mounting screws (not included) and washers (not included) to attach the two included brackets to the rack angle.

   When attaching the brackets to the rack angle, ensure that the distance between the bracket keyholes is aligned with the distance between keyhole mounts on the rear of the device. As shown below, this distance for PC-350V-12 and PC-350V-18 is 24.49 in. (622 mm) and 36.73 in. (933 mm), respectively.

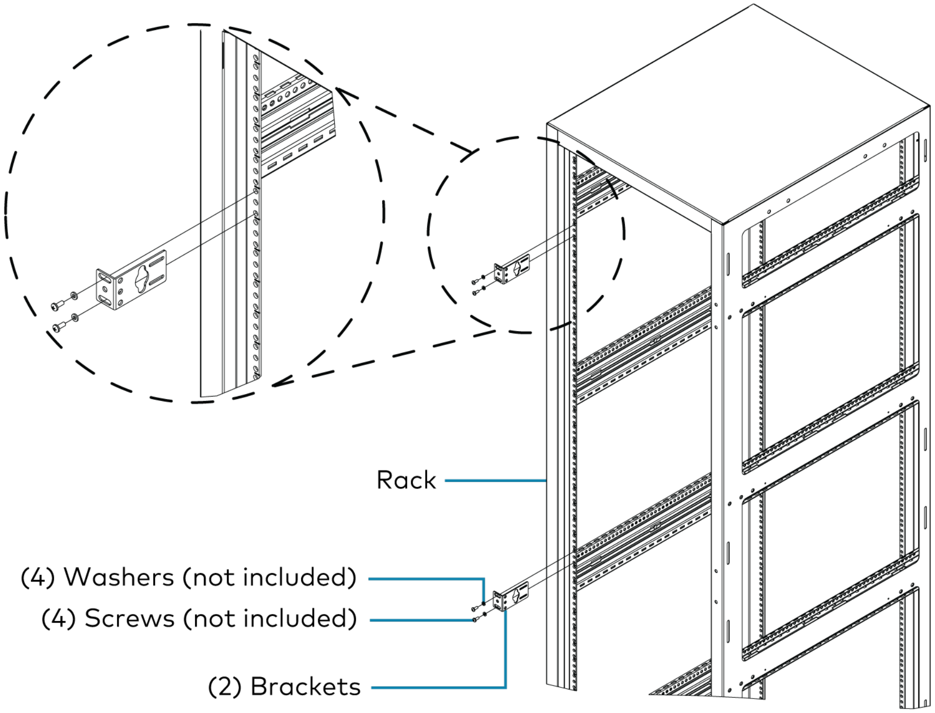
   Distance between keyhole mounts for PC-350V-12 and PC-350V-18

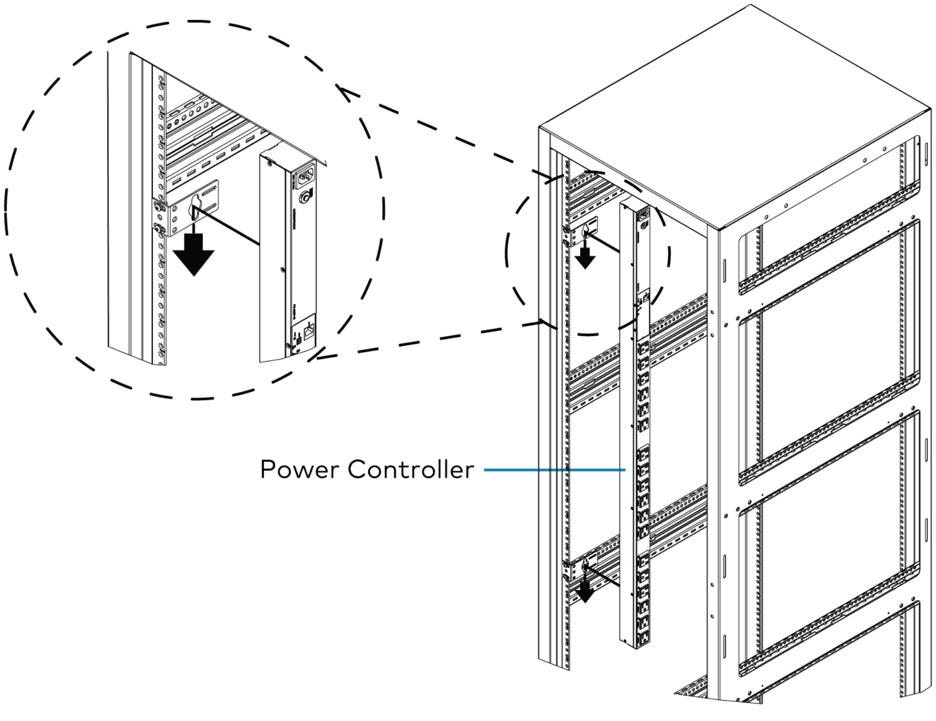
   Brackets can be attached to the rack angle using one of the following three methods. Follow the method that is best for your rack deployment to secure the device.
2. Align the keyhole mounts on the rear of the device to the keyhole slots on the mounting brackets.
3. Insert and slide the device down to lock firmly into position.

Method 1

Attaching brackets to the rack angle

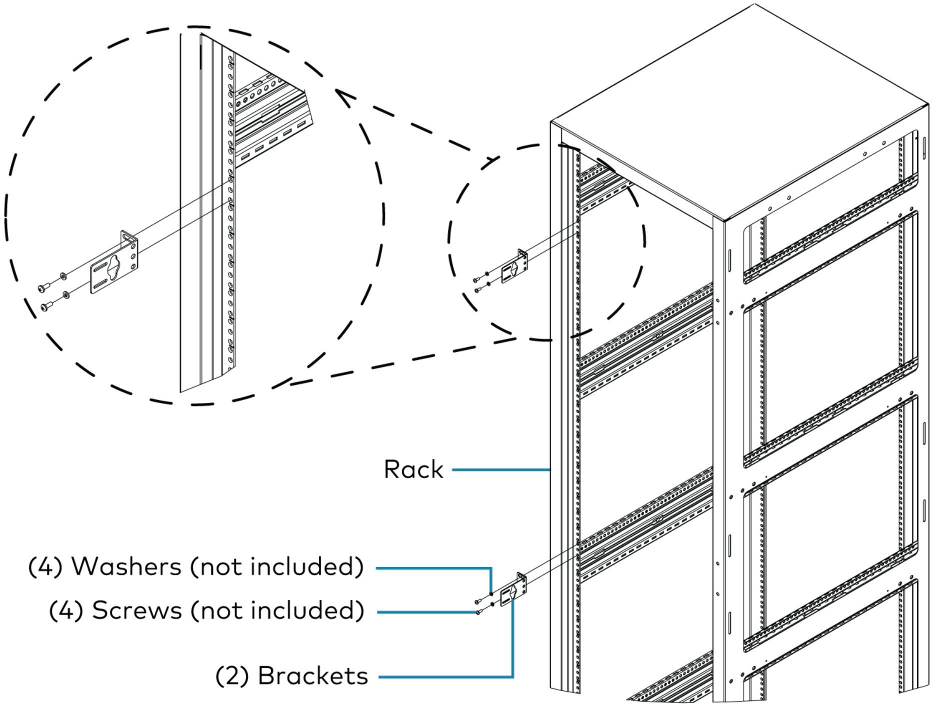

Rack
(4) Washers (not included)
(4) Screws (not included)
(2) Brackets

Mounting the device onto the brackets

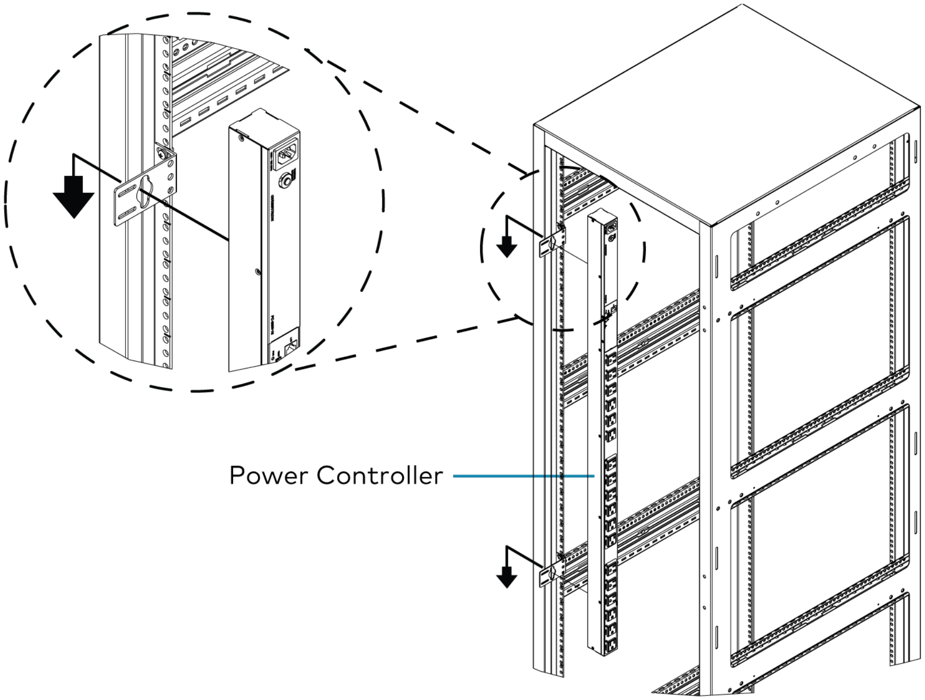

Power Controller

Method 2

Attaching brackets to the rack angle

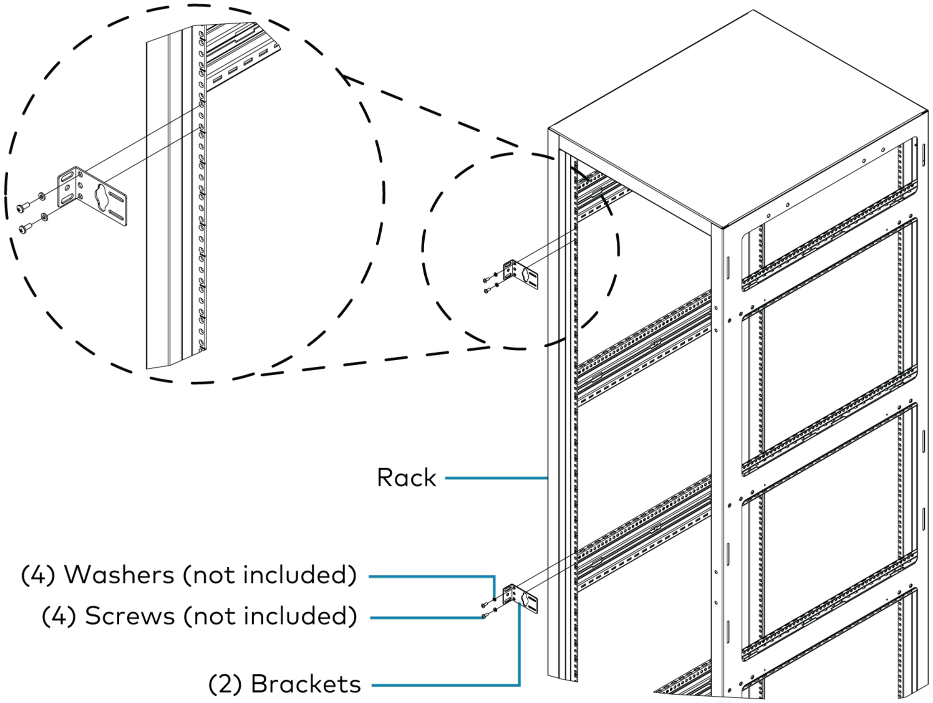

Rack
(4) Washers (not included)
(4) Screws (not included)
(2) Brackets

Mounting the device onto the brackets

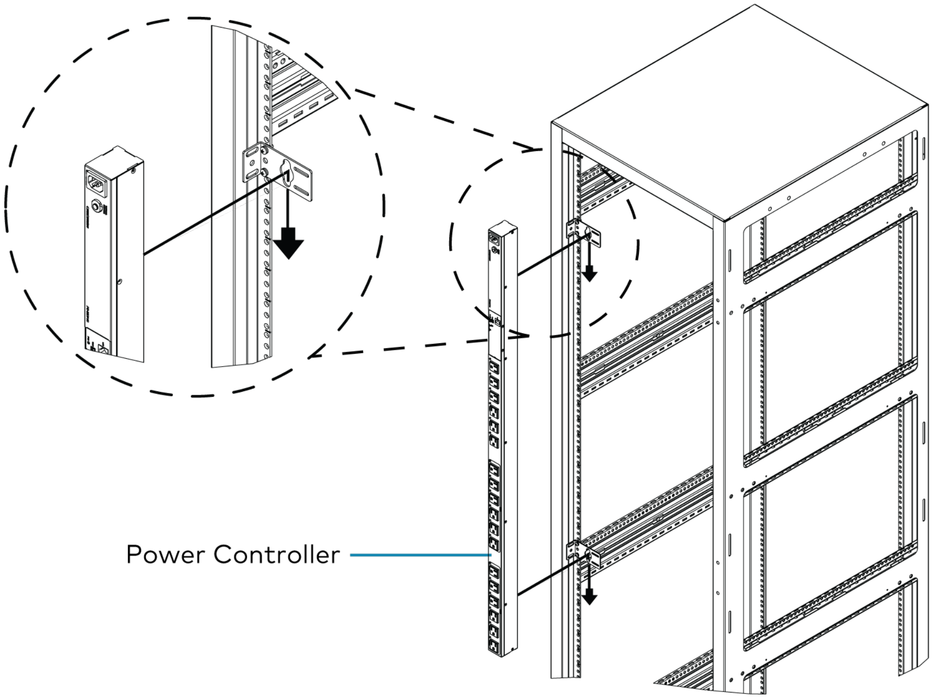

Power Controller

Method 3

Attaching brackets to the rack angle

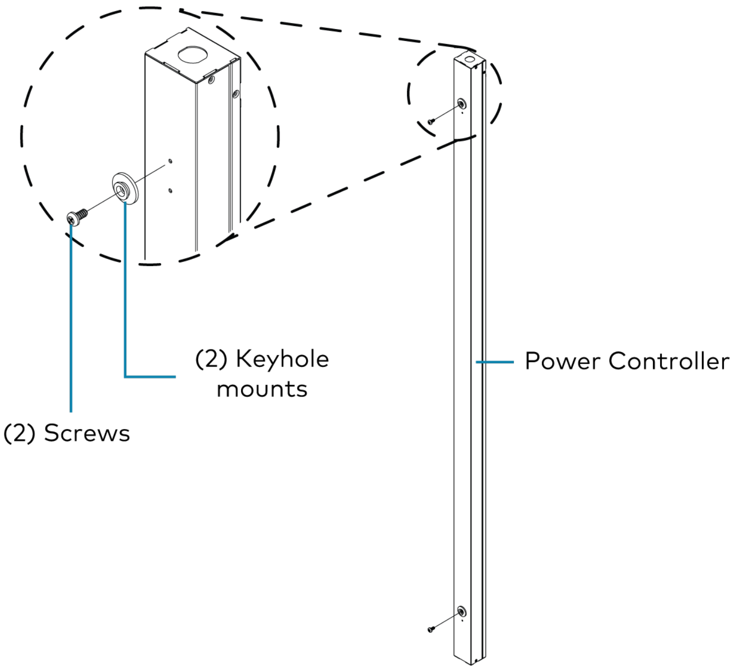

Rack
(4) Washers (not included)
(4) Screws (not included)
(2) Brackets

Mounting the device onto the brackets


Power Controller

Mounting the Device Without Keyhole Mounts

1. Remove the screws and keyhole mounts from the device.

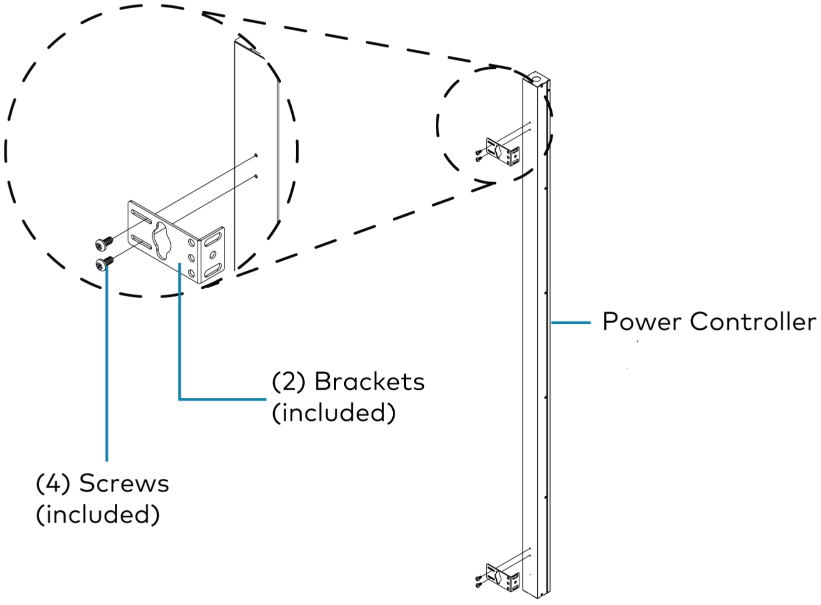


2. Store the keyhole mounts and screws for future use.
3. Use the four included mounting screws to attach the two included brackets to the rear of the device.

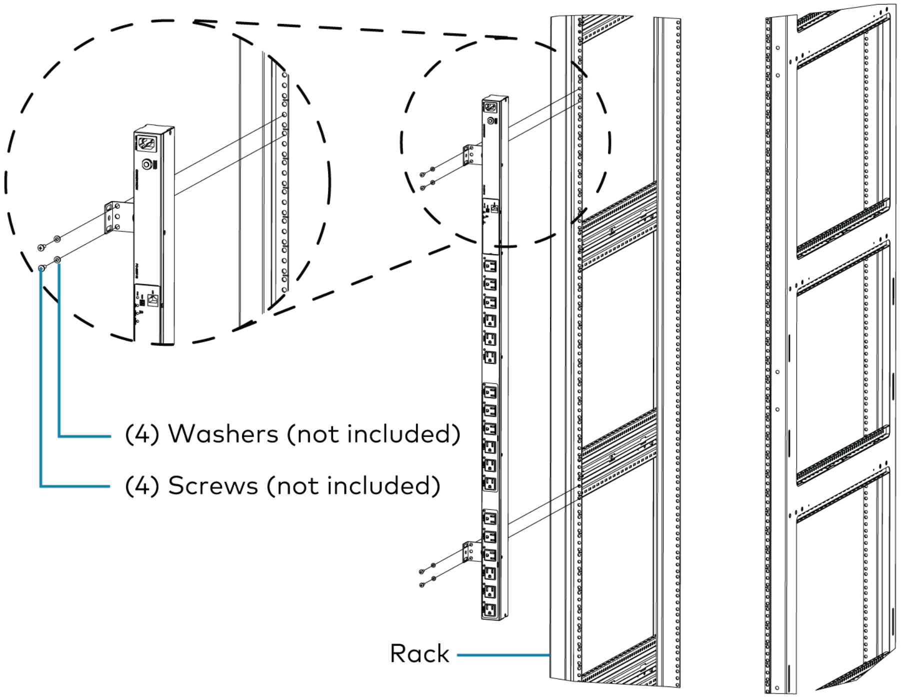
   Brackets can be attached to the device using one of the following three methods. Follow the method that is best for your rack deployment to secure the device.
4. Use the rack mounting screws (not included) and washers (not included) to attach the assembled device to the rack angle.

Method 1

Attaching brackets to the power controller

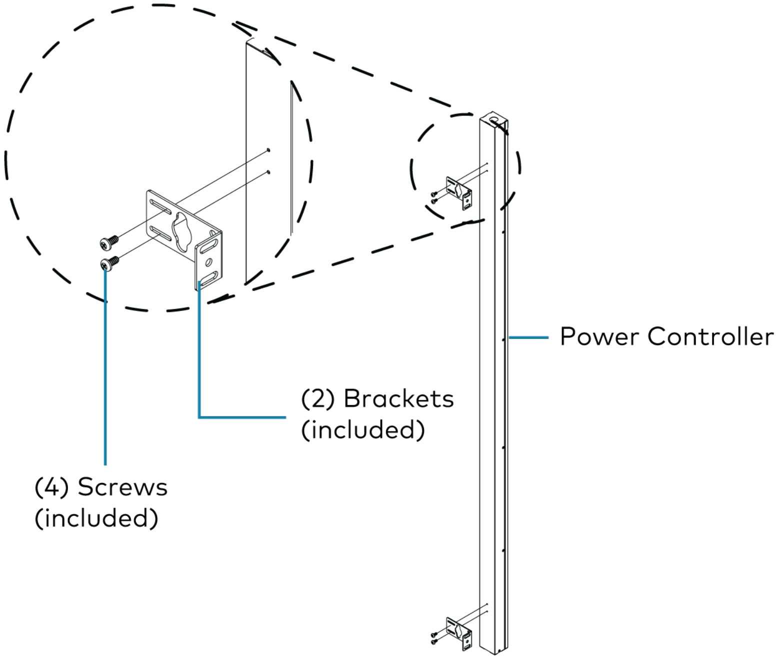

Power Controller
(2) Brackets (included)
(4) Screws (included)

Attaching the assembly to the rack angle

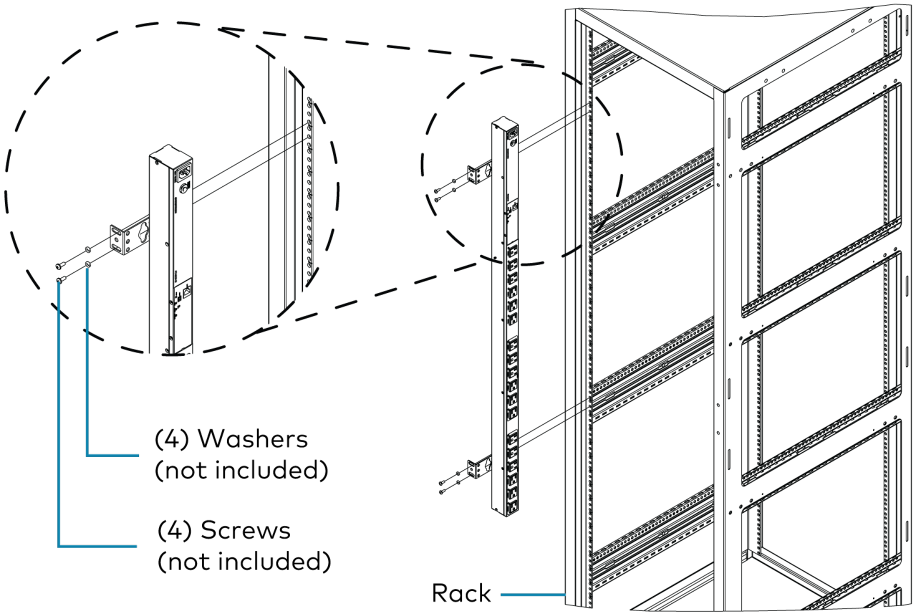

(4) Washers (not included)
(4) Screws (not included)
Rack

Method 2

Attaching brackets to the power controller

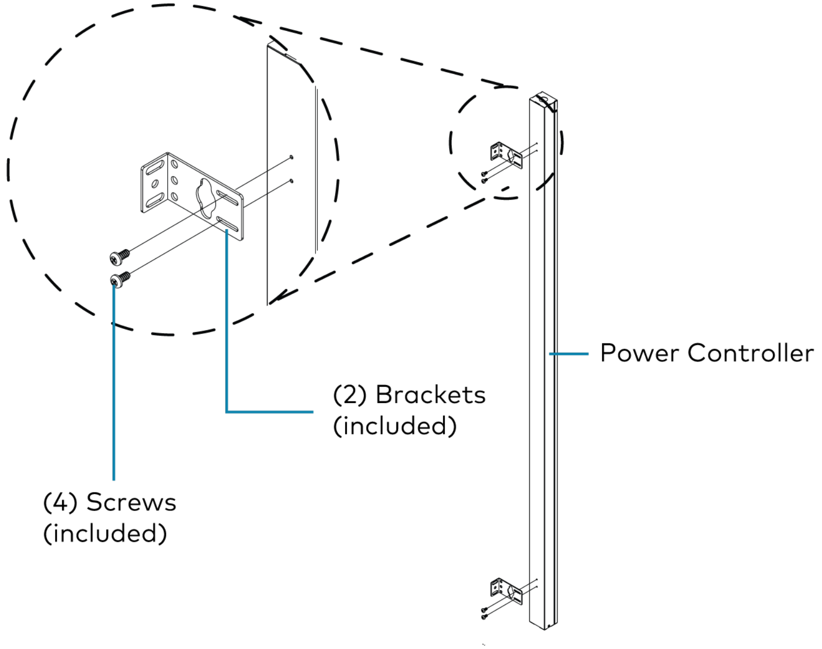

Power Controller
(2) Brackets
(included)
(4) Screws
(included)

Attaching the assembly to the rack angle

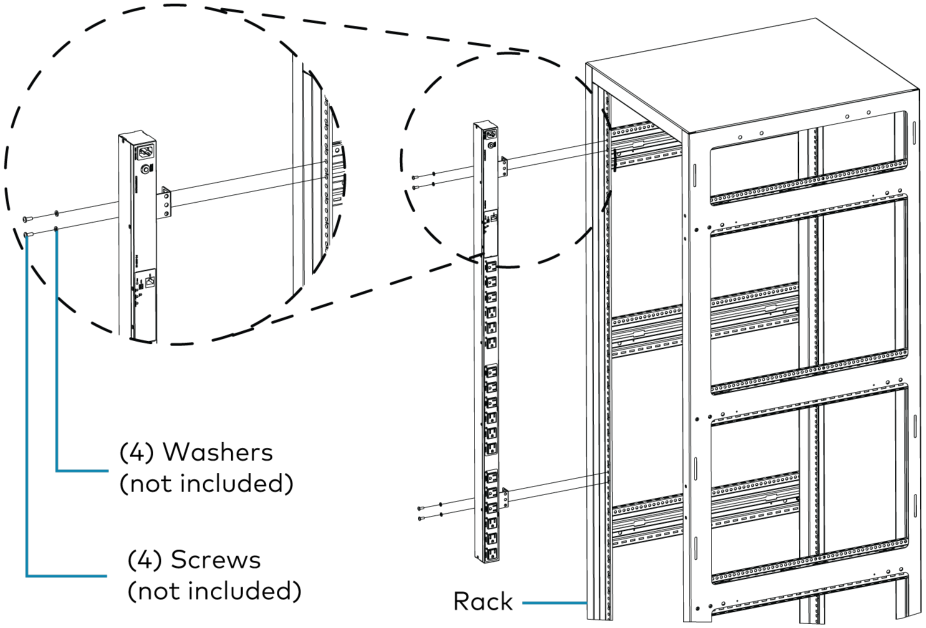

(4) Washers
(not included)
(4) Screws
(not included)
Rack

Method 3

Attaching brackets to the power controller


Power Controller
(2) Brackets
(included)
(4) Screws
(included)

Attaching the assembly to the rack angle


(4) Washers
(not included)
(4) Screws
(not included)
Rack

Outlet Test

Before making connections to the power controller, perform an outlet test to ensure that the outlet the power controller is plugged into is properly wired:

1. Connect the included power cord to the power controller.
2. Plug the power cord into the outlet and wait until the POWER LED and PROTECT LED on the power controller light green. This process may take several seconds.
3. Verify that the red **FAULT LED** is not lit.

   If the **FAULT LED** lights, then the connected outlet is not wired correctly. Fault details can be viewed in the device web user interface. For more information on monitoring and configuring the device parameters, refer to the PC-350V Series Product Manual.

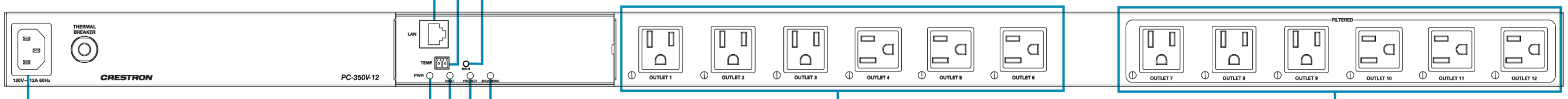
   > **NOTE:** Do not make any connections to the device until the connected outlet is wired correctly.

4. Repeat steps 1 and 2 until the **FAULT LED** stops lighting when the power controller is plugged into the outlet.

Make Connections

Make the necessary connections as called out in the following illustration. Connect power last.

PC-350V-12


THERMAL BREAKER
CRESTRON
120V~ 12A 60Hz
PC-350V-12
LAN
TEMP
PWR
FILTERED
OUTLET 1
OUTLET 2
OUTLET 3
OUTLET 4
OUTLET 5
OUTLET 6
OUTLET 7
OUTLET 8
OUTLET 9
OUTLET 10
OUTLET 11
OUTLET 12

TEMP:
To Crestron PC-TS
(optional temperature sensor)

LAN:
Ethernet to LAN

HW-R:
Hardware Reset button

POWER:
100-120VAC
50/60HZ
From AC Power
Outlet

POWER LED
FAULT LED
PROTECT LED
SHUTDOWN LED

Outlet 1-6:
Individually switchable outlets
with configurable turn-on
and power cycle delays

Outlet 7-12:
Individually switchable outlets with
configurable turn-on, power cycle
delays, and EMI and RFI noise filtering

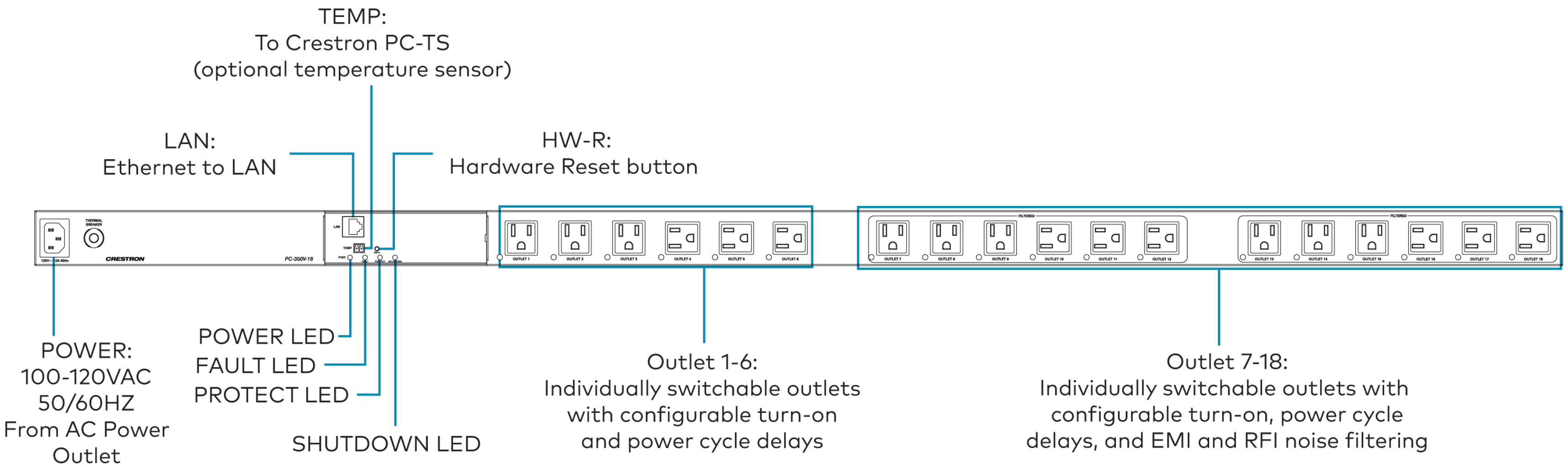
WARNING: If using a shielded Ethernet cable, exercise additional caution in verifying the inlet ground connection is established. The power controller may see a shielded Ethernet cable as a ground connection without an established life safety ground connection available at the inlet.

AVERTISSEMENT: Si vous utilisez un câble Ethernet blindé, redoublez de prudence en vérifiant que la connexion à la terre de l'entrée est établie. Le contrôleur de puissance peut voir un câble Ethernet blindé comme une connexion à la terre sans connexion à la terre de sécurité des personnes établie disponible à l'entrée.

CAUTION: The power controller must be plugged into a circuit that has at least a 20A or a 15A circuit breaker.

AVERTISSEMENT: Le contrôleur d'alimentation doit être branché dans un circuit doté d'un disjoncteur de 20 ou 15 ampères.

PC-350V-18


TEMP:
To Crestron PC-TS
(optional temperature sensor)
LAN:
Ethernet to LAN
HW-R:
Hardware Reset button
POWER:
100-120VAC
50/60HZ
From AC Power
Outlet
POWER LED
FAULT LED
PROTECT LED
SHUTDOWN LED
Outlet 1-6:
Individually switchable outlets
with configurable turn-on
and power cycle delays
Outlet 7-18:
Individually switchable outlets with
configurable turn-on, power cycle
delays, and EMI and RFI noise filtering

WARNING: If using a shielded Ethernet cable, exercise additional caution in verifying the inlet ground connection is established. The power controller may see a shielded Ethernet cable as a ground connection without an established life safety ground connection available at the inlet.

AVERTISSEMENT: Si vous utilisez un câble Ethernet blindé, redoublez de prudence en vérifiant que la connexion à la terre de l'entrée est établie. Le contrôleur de puissance peut voir un câble Ethernet blindé comme une connexion à la terre sans connexion à la terre de sécurité des personnes établie disponible à l'entrée.

CAUTION: The power controller must be plugged into a circuit that has at least a 20A or a 15A circuit breaker.

AVERTISSEMENT: Le contrôleur d'alimentation doit être branché dans un circuit doté d'un disjoncteur de 20 ou 15 ampères.

Reset the Device

A DHCP reset, hardware reset, factory restore, or power cycling all outlets may be performed when troubleshooting.

DHCP Reset

1. Ensure the device is powered on.
2. Press and hold the **HW-R** button for 1 second and release it for less than 2 seconds.
3. Repeat step 2 five times.

   The device will reboot, and the network settings will be reset to default: default Hostname, DHCP enabled, and no static IP.

Hardware Reset

This process is equivalent to disconnecting the device from the power source and then reconnecting it to clear a fault.

1. Ensure the device is powered on.
2. Press and hold the **HW-R** button for at least 3 seconds and release.

   The device will reboot.

Factory Restore

1. Ensure the device is powered on.
2. Press and hold the **HW-R** button for 15 seconds until all status LEDs flash twice to indicate the restore command has been executed successfully.

   The PWR LED flashes amber during the factory restore process. The device will then reboot, and all factory settings will be restored.

> **CAUTION:** Performing a factory restore will clear all settings from the device configuration.
>
> **AVERTISSEMENT:** L'exécution d'une restauration d'usine effacera tous les paramètres de la configuration de l'appareil.

Power Cycle All Outlets

1. Ensure the device is powered on.
2. Tap the **HW-R** button for less than 1 second.

   The power cycling initiates for all outlets.

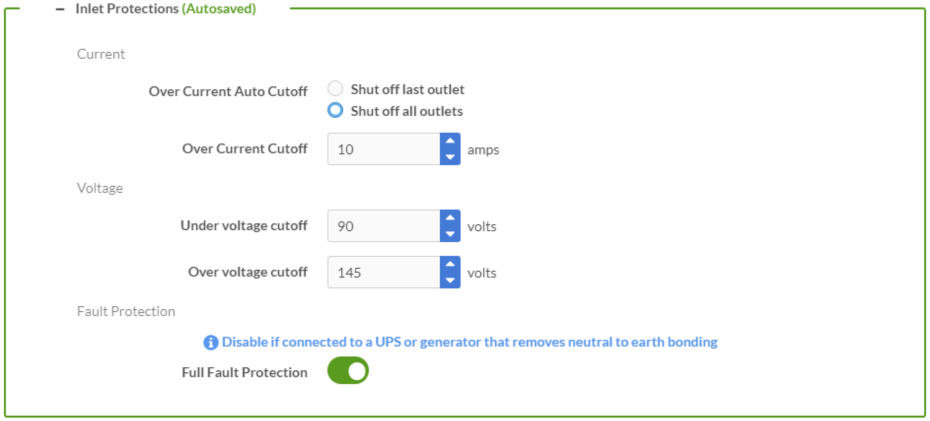
Observe the LED Indicators

Refer to the following table for information about the LED indicators on the device.

LED Indicator	Color	Meaning
PWR	Amber	The device is booting, factory reset in process, or the outlets have been shut off due to a fault condition.
	Green	The device is functioning normally.
	Flashing Green	The "Identify" search process is initiated.
FAULT	Red	Surge protection is compromised, line and neutral are reversed, or no ground is detected.
PROTECT	Green	Surge protection is functional.
SHUTDOWN	Amber	Power to outlets is shut off due to an overvoltage, undervoltage, overcurrent, line input miswire, missing ground, or compromised surge protection fault condition.
Per Outlet Indicator	Green	The outlet is turned on.
	Flashing Green	The "Identify" search process is initiated for the outlet.
LAN	Amber	Indicates Ethernet activity
	Green	Indicates Ethernet link status

Configure

Use the web user interface, SIMPL programming, or the Crestron Home® setup application to configure and monitor various components of the PC-350V-12 or PC-350V-18. For more information, refer to the product manual of the device.



– Inlet Protections (Autosaved)

Current

Over Current Auto Cutoff ○ Shut off last outlet ● Shut off all outlets

Over Current Cutoff 10 amps

Voltage

Under voltage cutoff 90 volts

Over voltage cutoff 145 volts

Fault Protection

Disable if connected to a UPS or generator that removes neutral to earth bonding

Full Fault Protection ●

CAUTION: Disabling Full Fault Protection prevents the device from detecting a miswire condition or detecting if some of the surge protection is compromised.

AVERTISSEMENT: La désactivation du paramètre de la protection complète contre les pannes empêche l'appareil de détecter une situation de mauvais raccordement ou de détecter si une partie de la protection contre les surtensions est compromise.

Important Safety Instructions

- Installation must be completed by a professional.
- Equipotential bonding must be in place where the equipment is mounted.
- The power cord must be connected to an outlet with a properly earthed ground connection, as the device is earthed through the power cord connection at the inlet.

WARNING: The device power plug is designed to be inserted into a NEMA 5-15 (three-prong grounded) outlet only. Do not force the plug into an outlet that is not designed to accept it. Never dismantle the plug or alter the power cord, and do not attempt to defeat the grounding feature by using a 3-to-2 prong adapter. If you have questions about grounding, consult your local power company or a qualified electrician.

AVERTISSEMENT: La fiche d'alimentation de l'appareil est conçue pour être insérée dans une prise NEMA 5-15 (mise à la terre à trois broches) uniquement. Ne forcez pas la fiche dans une prise qui n'est pas conçue pour l'accepter. Ne démontez jamais la prise ou ne modifiez jamais le cordon d'alimentation et n'essayez pas de désactiver la fonction de mise à la terre en utilisant un adaptateur 3 à 2 broches. Si vous avez des questions sur la mise à la terre, consultez votre compagnie d'électricité locale ou un électricien qualifié.

WARNING: If using a shielded Ethernet cable, exercise additional caution in verifying the inlet ground connection is established. The power controller may see a shielded Ethernet cable as a ground connection without an established life safety ground connection available at the inlet.

AVERTISSEMENT: Si vous utilisez un câble Ethernet blindé, redoublez de prudence en vérifiant que la connexion à la terre de l'entrée est établie. Le contrôleur de puissance peut voir un câble Ethernet blindé comme une connexion à la terre sans connexion à la terre de sécurité des personnes établie disponible à l'entrée.

- Equipment is intended for installation in Restricted Access Area.
- Les matériels sont destinés à être installés dans des EMPLACEMENTS À ACCÈS RESTREINT.
- Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.
- Peut être installé dans des salles de matériel de traitement de l’information conformément à l’article 645 du National Electrical Code et à la NFPA 75.

Visit the Product Page

Scan the QR code to visit the product page.

PC-350V-12

www.crestron.com/model/6511513

PC-350V-18

www.crestron.com/model/6511512

Additional Information

Original Instructions
The U.S. English version of this document is the original instructions.
All other languages are a translation of the original instructions.

Regulatory Model: M202015002, M202015001

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The product warranty can be found at www.crestron.com/warranty.

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