



Cabinet Distribution Unit

Installation Manual

- C-4Hx
- C-10Hx
- C-12Hx
- C-12HDx
- C-12Vx
- C-21Vx
- C-24Vx
- C-24VDx
- C-48VDx



Instructions

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Dangerous Voltage

This symbol is intended to alert the user to the presence of un-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Protective Grounding Terminal

This symbol indicates a terminal that must be connected to earth ground prior to making any other connections to the equipment.

Life-Support Policy

As a general policy, Server Technology does not recommend the use of any of its products in the following situations:

- life-support applications where failure or malfunction of the Server Technology product can be reasonably expected to cause failure of the life-support device or to significantly affect its safety or effectiveness.
- direct patient care.

Server Technology will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to Server Technology that:

- the risks of injury or damage have been minimized,
- the customer assumes all such risks, and
- the liability of Server Technology is adequately protected under the circumstances.

The term life-support device includes but is not limited to neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief or other purposes), auto-transfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators (for adults or infants), anesthesia ventilators, infusion pumps, and any other devices designated as "critical" by the U.S. FDA.

Notices

301-0125-3 Rev. F (011711)

Copyright © 2005-2011 Server Technology, Inc. All rights reserved.

1040 Sandhill Drive

Reno, Nevada 89521 USA

All Rights Reserved

This publication is protected by copyright and all rights are reserved. No part of it may be reproduced or transmitted by any means or in any form, without prior consent in writing from Server Technology.

The information in this document has been carefully checked and is believed to be accurate. However, changes are made periodically. These changes are incorporated in newer publication editions. Server Technology may improve and/or change products described in this publication at any time. Due to continuing system improvements, Server Technology is not responsible for inaccurate information which may appear in this manual. For the latest product updates, consult the Server Technology web site at www.servertech.com. In no event will Server Technology be liable for direct, indirect, special, exemplary, incidental or consequential damages resulting from any defect or omission in this document, even if advised of the possibility of such damages.

In the interest of continued product development, Server Technology reserves the right to make improvements in this document and the products it describes at any time, without notices or obligation.

The Globe logo is a trademark of Server Technology, Inc., registered in the US. Use of the logos for commercial purposes without the prior written consent of Server Technology may constitute trademark infringement and unfair competition in violation of federal and state laws.

Server Technology and the Globe logo are trademarks of Server Technology, Inc., registered in the US.

Sentry, Cabinet Distribution Unit, CDU, and **SMARTER** Technical Support are trademarks of Server Technology, Inc.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Server Technology, Inc. disclaims any proprietary interest in trademarks and trade names other than its own.



Please Recycle

Shipping materials are recyclable. Please save them for later use, or dispose of them appropriately.

Table of Contents

CHAPTER 1: INTRODUCTION	4
Quick Start Guide	4
Technical Support	4
Equipment Overview	5
CHAPTER 2: INSTALLATION	6
Standard Accessories	6
Additional Required Items	6
Safety Precautions.....	6
Installing the Power Input Retention Bracket	7
Mounting.....	7
Connecting to the Power Source.....	8
Connecting Devices	8
CHAPTER 3: APPENDICES	9
Appendix A: Technical Specifications.....	9
Appendix B: Warranty, Product Registration and Support.....	15

Chapter 1: Introduction

Quick Start Guide

The following instructions will help you quickly install and configure your Cabinet Distribution Unit (CDU) for use in your data center equipment cabinet. For detailed information on each step, go to the page number listed to the right.

1. Mount the CDU.....7
2. Connect to the power source8
3. Connect the devices.....8

Technical Support



Experience Server Technology's **FREE SMARTER Technical Support** - [Learn more...](#)

Server Technology understands that there are often questions when installing and/or using a new product. Free Technical Support is provided from 6:00 AM to 7:00 PM, Monday-Friday, Pacific Time.

Server Technology, Inc.

1040 Sandhill Drive

Reno, Nevada 89521 USA

Tel: 775.284.2000

Fax: 775.284.2065

Web: www.servertech.com

Email: support@servertech.com

Equipment Overview

1. The Input Current LED(s) displays the current load for each infeed or electrical phase per infeed.
2. The power inlet/cord(s) connects the CDU to the electrical power source.

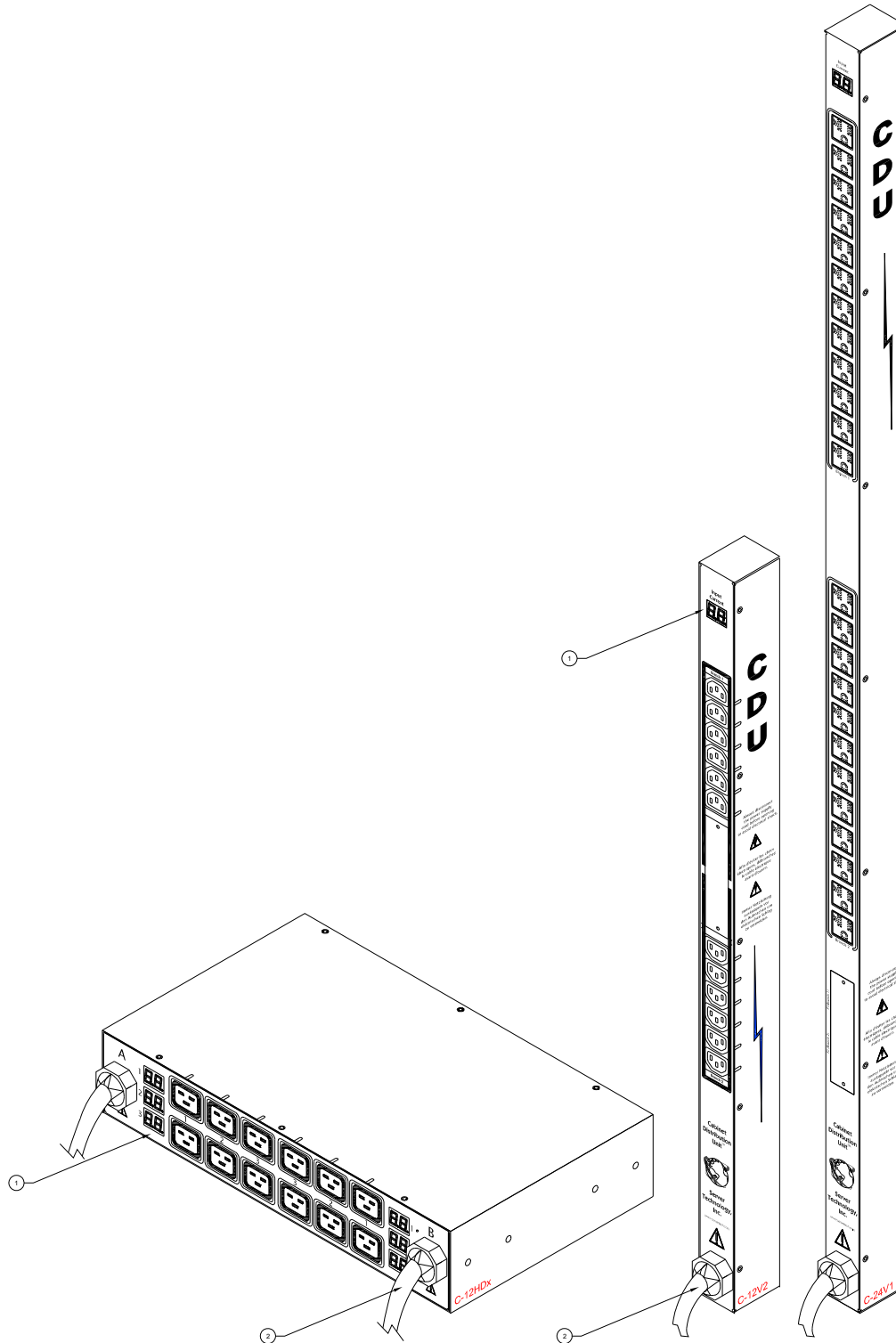


Figure 1. Cabinet Distribution Unit Views

Chapter 2: Installation

Before installing your Sentry Cabinet Distribution Unit (CDU), refer to the following lists to ensure that you have all the items shipped with the unit as well as all other items required for proper installation.

Standard Accessories

- Mounting hardware:
 - Vertical models -*
 - Two removable flanges with four M4 screws.
 - Two mounting L-brackets with nut plates, four sets of screws and washers.
 - Optional button mounts.
 - Horizontal models -*
 - Two removable L-brackets with M4 screws.
- Outlet retention clips (208-240V models).

Additional items for C-xxx-C20 models:

- Separate power input cord.
- Power input retention bracket hardware (may be installed):
 - Two removable T-brackets with two 40mm screws per input.

Additional Required Items

- Flathead and Phillip screwdrivers
- Screws, washers and nuts to attach the CDU to your rack

Safety Precautions

This section contains important safety and regulatory information that should be reviewed before installing and using the Sentry Rack-Mount Fail-Safe Transfer Switch. For input and output current ratings, see *Power Ratings* on page 10.

	Only for installation and use in a Service Access Location in accordance with the following installation and use instructions.	<i>Destiné à l'installation et l'utilisation dans le cadre de Service Access Location selon les instructions d'installation et d'utilisation.</i>	Nur für Installation und Gebrauch an Anschlusszugriffspunkten gemäß der folgenden Installations- und Gebrauchsanweisungen.
	This equipment is designed to be installed on a dedicated circuit.	<i>Cet équipement est conçu à être installé sur un circuit spécialisé.</i>	Diese Ausrüstung ist zur Installation in einem festen Stromkreis vorgesehen.
	Dedicated circuit must have circuit breaker or fuse protection. CDUs have been designed without a master circuit breaker or fuse to avoid becoming a single point of failure. It is the customer's responsibility to provide adequate protection for the dedicated power circuit. Protection of capacity equal to the current rating of the CDU must be provided and must meet all applicable codes and regulations. In North American, protection must have a 10,000A interrupt capacity.	<i>Le circuit spécialisé doit avoir un disjoncteur ou une protection de fusible. CDUs ont été conçus sans disjoncteur général ni fusible pour éviter que cela devienne un seul endroit de panne. C'est la responsabilité du client de fournir une protection adéquate pour le circuit-alimentation spécialisé. Protection de capacité équivalant à la puissance de l'équipement, et respectant tous les codes et normes applicables. Les disjoncteurs ou fusibles destinés à l'installation en Amérique du Nord doivent avoir une capacité d'interruption de 10.000 A.</i>	Der feste Stromkreis muss mit einem Schutzschalter oder einem Sicherungsschutz versehen sein. CDUs verfügt über keinen Hauptschutzschalter bzw. über keine Sicherung, damit kein einzelner Fehlerpunkt entstehen kann. Der Kunde ist dafür verantwortlich, den Stromkreis sachgemäß zu schützen. Der Kapazitätsschutz entspricht der aktuellen Stromstärke der Geräte und muss alle relevanten Codes und Bestimmungen erfüllen. Für Installation in Nordamerika müssen Ausschalter bzw. Sicherung über 10.000 A Unterbrechungskapazität verfügen.
	The plug on the power supply cord shall be installed near the equipment and shall be easily accessible.	<i>La prise sur le cordon d'alimentation sera installée près de l'équipement et sera facilement disponible.</i>	Der Stecker des Netzkabels muss in der Nähe der Ausrüstung installiert werden und leicht zugänglich sein.
	Installation Orientation: Cx-xxVx-x units are design to be installed in vertical orientation.	<i>Installation Orientation : Les unités Cx-xxVx-x sont conçues pour être installées dans une orientation verticale.</i>	Installationsausrichtung: Cx-xxVx-x Einheiten sind zur vertikalen Installation vorgesehen.
	Always disconnect the power supply cord before opening to avoid electrical shock.	<i>Toujours déconnecter le cordon d'alimentation avant d'ouvrir pour éviter un choc électrique.</i>	Vor dem Öffnen immer Netzleitung abziehen um elektrischen Schlag zu vermeiden.
	WARNING! High leakage current! Earth connection is essential before connecting supply!	<i>ATTENTION ! Haut fuite très possible ! Une connexion de masse est essentielle avant de connecter l'alimentation !</i>	ACHTUNG! Hoher Ableitstrom! Ein Erdungsanschluss ist vor dem Einschalten der Stromzufuhr erforderlich!
	WARNING! Cx-xxE-x units Double Pole/Neutral Fusing	<i>ATTENTION! Les unités Cx-xxE-x Double Pôle/Fusible sur le Neutre</i>	ACHTUNG! Cx-xxE-x Zweipolige bzw. Neutralleiter-Sicherung

Installing the Power Input Retention Bracket

For units with a total maximum output <math><30\text{A}</math>, it may be necessary to install the power input retention bracket prior to mounting the unit within the rack.

To install the power input retention bracket:

1. Remove the two screws attaching the IEC 60320 C19 inlet to the enclosure.
2. Assemble and attach the retention bracket to the enclosure as shown.

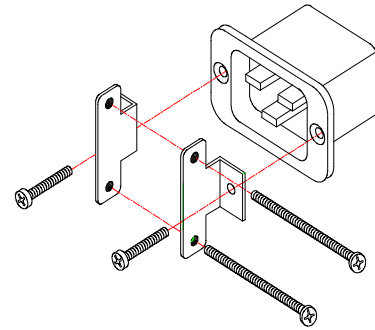


Figure 2.1 Retention Bracket Assembly

Mounting

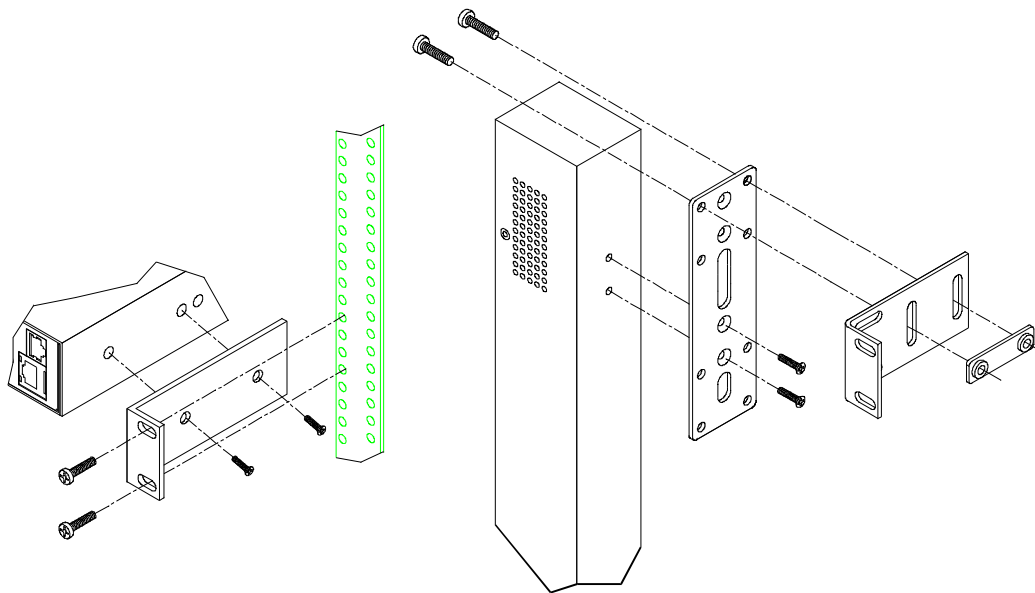


Figure 2.2 Mounting

Horizontal/Rack

1. Select the appropriate bracket mounting points for proper mounting depth within the rack.
2. Attach the L-brackets to these mounting points with two screws for each bracket.
3. Install the enclosure into your rack, using the slots in each bracket. The slots allow about $\frac{1}{4}$ inch of horizontal adaptability to align with the mounting holes of your rack.

NOTE: A mounting bracket kit for 23" wide racks or cabinets is available. Contact your Server Technology Sales Representative for more information.

Vertical

1. Attach the removable flanges to the mount points on the rear of the enclosure using M4 screws.
2. Attach the mounting L-brackets to the flanges with the supplied screws, washers and nut plates. The slots allow about $1\frac{1}{2}$ inches of vertical adaptability.
3. Attach the top and bottom brackets to your rack.

NOTE: Contact your Server Technology Sales Representative for information regarding custom bracket design and fabrication services if you are unable to find a suitable manner for utilizing the included mounting brackets.

Optionally, the supplied button mounts may be used for mounting the CDU into cabinets supporting this method of equipment mounting.

Connecting to the Power Source

On 30A units, the input power cord is attached to the base of the unit. On units with a total maximum output $<30A$, you must first attach the power cord to the unit before connecting the unit to the power source.

To attach a power cord to the unit:

1. Plug the female end of the power cord firmly into its connector at the base.
2. Use a screwdriver to tighten the two screws on the retention bracket.

To connect to the power source:

Plug the male end of the power cord into the AC power source.

Connecting Devices

1. Keep the device's on/off switch in the off position until after it is plugged into the outlet.
2. Connect devices to the CDU outlets.

NOTE: Server Technology recommends even distribution of attached devices across all available outlets to avoid exceeding the outlet, branch or phase limitations. For more information, see *Power Ratings* on page 10.



Always disconnect ALL power supply cords before opening to avoid electrical shock.
Afin d'éviter les chocs électriques, débranchez TOUTES les cables électrique avant d'ouvrir.
Vor dem Öffnen immer Netzleitungen abziehen um elektrischen Schlag zu vermeiden.

Chapter 3: Appendices

Appendix A: Technical Specifications

Domestic Models

Horizontal/Rack Models

Model	Rated Voltage	Input Cordset and Plug (10')	Outlets
C-4H1-C20	100-120 50/60Hz	IEC 60320 C20 ¹	4 IEC 60320 C19
C-4H1-L30	100-120 50/60Hz	NEMA L530P, 30A/125V locking	4 IEC 60320 C19
C-4H2-C20	208-240V 60Hz	IEC 60320 C20 ¹	4 IEC 60320 C19
C-4H2-L30	208-240V 60Hz	NEMA L630P, 30A/230V locking	4 IEC 60320 C19
C-10H1-C20	100-120 50/60Hz	IEC 60320 C20 ¹	10 NEMA 520R
C-10H1-L530	100-120 50/60Hz	NEMA L530P, 30A/125V locking	10 NEMA 520R
C-12H2-C20	208-240V 60Hz	IEC 60320 C20 ¹	12 IEC 60320 C13
C-12H2-L630	208-240V 60Hz	NEMA L630P, 30A/230V locking	12 IEC 60320 C13
C-12HD1-L530	100-120 50/60Hz	2x NEMA L530P, 30A/125V locking	12 IEC 60320 C19
C-12HD2-L630	208-240V 60Hz	2x NEMA L630P, 30A/230V locking	12 IEC 60320 C19
C-12HDD-L1520	3/PE 240V 60Hz	2x NEMA L1520P, 20A/240V locking	12 IEC 60320 C19
C-12HDD-L1530	3/PE 240V 60Hz	2x NEMA L1530P, 30A/240V locking	12 IEC 60320 C19
C-12HDY-L2120	3/N/PE 208V 60Hz	2x NEMA L2120P, 20A/208V locking	12 IEC 60320 C19
C-12HDY-L2130	3/N/PE 208V 60Hz	2x NEMA L2130P, 30A/208V locking	12 IEC 60320 C19
C-24H2-L30	208-240V 60Hz	NEMA L630P, 30A/230V locking	24 IEC 60320 C13

Vertical Models

Model	Rated Voltage	Input Cordset and Plug (10')	Outlets
C-12V1-C20	100-120V 50/60Hz	IEC 60320 C20 ¹	12 NEMA 520R
C-12V1-L530	100-120V 50/60Hz	NEMA L530P, 30A/125V locking	12 NEMA 520R
C-12V2-C20	208-240V 60Hz	IEC 60320 C20 ¹	12 IEC 60320 C13
C-12V2-L630	208-240V 60Hz	NEMA L630P, 30A/230V locking	12 IEC 60320 C13
C-12VD-P603	3/PE 240V 60Hz	IEC 60309, 60A 4-pin 9Hr Blue	12 IEC 60320 C19
C-12VY-P603	3/N/PE 208V 60Hz	IEC 60309, 60A 5-pin 9Hr Blue	12 IEC 60320 C19
C-21VD-L1520	3/PE 240V 60Hz	NEMA L1520P, 20A/230V locking	21 IEC 60320 C13
C-21VY-L2120	3/N/PE 208V 60Hz	NEMA L2120P, 20A/230V locking	21 IEC 60320 C13
C-24V1-C20	100-120V 50/60Hz	IEC 60320 C20 ¹	24 NEMA 520R
C-24V1-L530	100-120V 50/60Hz	NEMA L530P, 30A/125V locking	24 NEMA 520R
C-24V2-C20	208-240V 60Hz	IEC 60320 C20 ¹²	24 IEC 60320 C13
C-24V2-L630	208-240V 60Hz	NEMA L630P, 30A/230V locking	24 IEC 60320 C13
C-24V2-L20A	208-240V 60Hz	NEMA L620P, 20A/230V locking	18 / 6 ²
C-24V2-L30A	208-240V 60Hz	NEMA L630P, 30A/230V locking	18 / 6 ²
C-24VD1-C20	100-120V 50/60Hz	2x IEC 60320 C20 ¹	24 NEMA 520R
C-24VD1-L530	100-120V 50/60Hz	2x NEMA L530P, 30A/125V locking	24 NEMA 520R
C-24VD2-C20	208-240V 60Hz	2x IEC 60320 C20 ¹	24 IEC 60320 C13
C-24VD2-L630	208-240V 60Hz	2x NEMA L630P, 30A/230V locking	24 IEC 60320 C13
C-24VD-L30A	3/PE 240V 60Hz	NEMA L1530P, 30A/240V locking	18 / 6 ²
C-24VY-L30A	3/N/PE 208V 60Hz	NEMA L2130P, 30A/208V locking	18 / 6 ²
C-48VD1-C20	100-120V 50/60Hz	2x IEC 60320 C20 ¹	48 NEMA 520R
C-48VD1-L530	100-120V 50/60Hz	2x NEMA L530P, 30A/125V locking	48 NEMA 520R
C-48VD2-C20	208-240V 60Hz	2x IEC 60320 C20 ¹	48 IEC 60320 C13
C-48VD2-L630	208-240V 60Hz	2x NEMA L630P, 30A/230V locking	48 IEC 60320 C13
C-48VDY-L30	3/N/PE 208V 60Hz	2x NEMA L2130P, 30A/208V locking	48 IEC 60320 C13

¹ Input cordset selected at time of purchase

² 18 x IEC 60320 C13 and 6 x IEC 60320 C19

International Models

Horizontal/Rack Models

Model	Rated Voltage	Input Cordset and Plug (10')	Outlets
C-4HE-C20	230V 50/60Hz	IEC 60320 C20 ¹	4 IEC 60320 C19
C-4HE-P32	230V 50/60Hz	IEC 60309, 32A 3-pin 6Hr Blue	4 IEC 60320 C19
C-12HE-C20	230V 50/60Hz	IEC 60320 C20 ¹	12 IEC 60320 C13
C-12HE-P32	230V 50/60Hz	IEC 60309, 32A 3-pin 6Hr Blue	12 IEC 60320 C13
C-12HDE-30932E	230V 50/60Hz	2x IEC 60309, 32A 3-pin 6Hr Blue	12 IEC 60320 C13
C-24HE-P32	230V 50/60Hz	IEC 60309, 32A 3-pin 6Hr Blue	24 IEC 60320 C13

Vertical Models

Model	Rated Voltage	Input Cordset and Plug (10')	Outlets
C-12VE-C20	230V 50/60Hz	IEC 60320 C20 ¹	12 IEC 60320 C13
C-12VE-30932E	230V 50/60Hz	IEC 60309, 32A 3-pin 6Hr Blue	12 IEC 60320 C13
C-24VE-C20	230V 50/60Hz	IEC 60320 C20 ¹	24 IEC 60320 C13
C-24VE-30932E	230V 50/60Hz	IEC 60309, 32A 3-pin 6Hr Blue	24 IEC 60320 C13
C-24VDE-C20	230V 50/60Hz	2x IEC 60320 C20 ¹	24 IEC 60320 C13
C-24VDE-30932E	230V 50/60Hz	2x IEC 60309, 32A 3-pin 6Hr Blue	24 IEC 60320 C13
C-48VDE-C20	230V 50/60Hz	2x IEC 60320 C20 ¹	48 IEC 60320 C13
C-48VD2-30932E	230V 50/60Hz	2x IEC 60309, 32A 3-pin 6Hr Blue	48 IEC 60320 C13

¹ Input cordset selected at time of purchase

² 18 x IEC 60320 C13 and 6 x IEC 60320 C19

Power Ratings

Domestic Models

Model Modele Modell	Input Current Ratings ₁ L'indice du courant d'entrée Eingangstromstärke		Output Current Ratings L'indice du courant de sortie Ausgangsstromstärke				Phase ₂	Total Total Insgesamt
	Voltage Tension Spannung	Current Courrant Strom	Voltage Tension Spannung	Outlet Prise Anschlussstelle	Branch Circuit Circuit de la Branche Zweigstromkreis			
100-120V 50/60Hz								
C-4H1-C20	100-120V 50/60Hz	16	100-120V 50/60Hz	16	16			16
C-4H1-L530	100-120V 50/60Hz	24	100-120V 50/60Hz	16	16			24
C-10H1-C20	100-120V 50/60Hz	16	100-120V 50/60Hz	16	16			16
C-10H1-L530	100-120V 50/60Hz	24	100-120V 50/60Hz	16	16			24
C-12V1-C20	100-120V 50/60Hz	16	100-120V 50/60Hz	16	16			16
C-12V1-L530	100-120V 50/60Hz	24	100-120V 50/60Hz	16	16			24
C-24V1-C20	100-120V 50/60Hz	16	100-120V 50/60Hz	16	16			16
C-24V1-L530	100-120V 50/60Hz	24	100-120V 50/60Hz	16	16			24
C-24VD1-C20	100-120V 50/60Hz	A: 16 B: 16	100-120V 50/60Hz	16	16			A: 16 B: 16
C-24VD1-L530	100-120V 50/60Hz	A: 24 B: 24	100-120V 50/60Hz	16	16			A: 24 B: 24
C-48VD1-C20	100-120V 50/60Hz	A: 16 B: 16	100-120V 50/60Hz	16	16			A: 16 B: 16
C-48VD1-L530	100-120V 50/60Hz	A: 24 B: 24	100-120V 50/60Hz	16	16			A: 24 B: 24

¹ All current ratings are in amperes. *Tous les indices de courant sont en ampères.* Alle Angaben der Stromstärke erfolgen in Ampere.

² Each branch circuit or phase consists of: *Chaque circuit de la branche comporte:* Jeder Zweigstromkreis besteht aus:

4Hx 2 outlets, *prises*, Anschlüsse. Input, *Entrée*, Eingang A: 1a, 2a

10Hx 5 outlets, *prises*, Anschlüsse. Input, *Entrée*, Eingang A: 1a, 2a

12Vx, 24VDx One 6-outlet module; 6 outlets. *1 série de 6 prises de courants, soit au total 6 prises.*

1 gekuppelten Modulen mit je 6 Anschlüssen: 6 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a, 2a, 3a

24Vx, 48VDx Two 6-outlet module; 12 outlets. *2 série de 6 prises de courants, soit au total 12 prises.*

2 gekuppelten Modulen mit je 6 Anschlüssen: 12 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a+1b, 2a+3b, 3a+3b

Domestic Models (continued)

Model Modele Modell	Input Current Ratings ¹ L'indice du courant d'entrée Eingangsstromstärke		Output Current Ratings L'indice du courant de sortie Ausgangsstromstärke				Phase ²	Total Total Insgesamt
	Voltage Tension Spannung	Current Courrant Strom	Voltage Tension Spannung	Outlet Prise Anschlussstelle	Branch Circuit Circuit de la Branche Zweigstromkreis			
208-240 60Hz								
C-4H2-C20	208-240V 60Hz	16	208-240V 60Hz	16	16			16
C-4H2-L630	208-240V 60Hz	24	208-240V 60Hz	16	16			24
C-12H2-C20	208-240V 60Hz	16	208-240V 60Hz	12	16			16
C-12H2-L30	208-240V 60Hz	24	208-240V 60Hz	12	16			24
C-12HD2-L630	208-240V 60Hz	A: 24 B: 24	208-240V 60Hz	16	16			A: 24 B: 24
C-12V2-C20	208-240V 60Hz	16	208-240V 60Hz	12	16			16
C-12V2-L630	208-240V 60Hz	24	208-240V 60Hz	12	16			24
C-24V2-C20	208-240V 60Hz	16	208-240V 60Hz	12	16			16
C-24V2-L630	208-240V 60Hz	24	208-240V 60Hz	12	16			24
C-24V2-C20A	208-240V 60Hz	16	208-240V 60Hz	12 / 16	16			16
C-24V2-L30A	208-240V 60Hz	24	208-240V 60Hz	12 / 16	16			24
C-24VD2-C20	208-240V 60Hz	A: 16 B: 16	208-240V 60Hz	12	16			A: 16 B: 16
C-24VD2-L630	208-240V 60Hz	A: 24 B: 24	208-240V 60Hz	12	16			A: 24 B: 24
C-48VD2-C20	208-240V 60Hz	A: 16 B: 16	208-240V 60Hz	12	16			A: 16 B: 16
C-48VD2-L630	208-240V 60Hz	A: 24 B: 24	208-240V 60Hz	12	16			A: 24 B: 24
3/PE 240V 60Hz								
C-12HDD-L1520	3/PE 240V 60 Hz	A: 16 B: 16	240V 60Hz	9.2	9.2 9.2 9.2	xy yz xz	9.2 9.2 9.2	A: 27.6 B: 27.6
C-12HDD-L1530	3/PE 240V 60 Hz	A: 24 B: 24	240V 60Hz	13.9	13.9 13.9 13.9	xy yz xz	13.9 13.9 13.9	A: 41.6 B: 41.6
C-21VD-L1520	3/PE 240V 60 Hz	16	240V 60Hz	9.2	9.2 9.2 9.2	xy yz xz	9.2 9.2 9.2	27.6
C-24VD-L30A	3/PE 240V 60 Hz	16	240V 60Hz	12 / 13.9	13.9 13.9 13.9	xy yz xz	13.9 13.9 13.9	41.6

¹ All current ratings are in amperes. *Tous les indices de courant sont en ampères.* Alle Angaben der Stromstärke erfolgen in Ampere.

² Each branch circuit or phase consists of: *Chaque circuit de la branche comporte:* Jeder Zweigstromkreis besteht aus:

- 4Hx
2 outlets, *prises*, Anschlüsse. Input, *Entrée*, Eingang A: 1a, 2a
- 12Hx
One 6-outlet module; 6 outlets. *1 série de 6 prises de courants, soit au total 6 prises.*
1 gekuppelten Modulen mit je 6 Anschlüssen: 6 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a, 2a, 3a
- 12HDx
2 outlets, *prises*, Anschlüsse. Input, *Entrée*, Eingang A, B: 1a, 2a, 3a,
- 12Vx, 24VDx
One 6-outlet module; 6 outlets. *1 série de 6 prises de courants, soit au total 6 prises.*
1 gekuppelten Modulen mit je 6 Anschlüssen: 6 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a, 2a, 3a
- 21Vx -
One 7-outlet module; 7 outlets. *1 série de 7 prises de courants, soit au total 7 prises.*
1 gekuppelten Modulen mit je 7 Anschlüssen: 7 Anschlüsse. Input, *Entrée*, Eingang A: 1a, 2a, 3a
- 24Vx, 48VDx
Two 6-outlet module; 12 outlets. *2 série de 6 prises de courants, soit au total 12 prises.*
2 gekuppelten Modulen mit je 6 Anschlüssen: 12 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a+1b, 2a+3b, 3a+3b
- 24Vx-xA
One 6-outlet module (C13) and 2 outlets (C19); 8 outlets,
1 série de 6 prises de courants(C13) et 2 prises (C19); 8 prises.
1 gekuppelten Modulen mit je 6 Anschlüssen und 2 Anschlüsse; 8 Anschlüsse
Input, *Entrée*, Eingang A: 1a, 2a, 3a

Domestic Models (continued)

Model <i>Modèle</i> Modell	Input Current Ratings ₁ <i>L'indice du courant d'entrée</i> Eingangsstromstärke		Output Current Ratings <i>L'indice du courant de sortie</i> Ausgangsstromstärke				
	Voltage <i>Tension</i> Spannung	Current <i>Courant</i> Strom	Voltage <i>Tension</i> Spannung	Outlet <i>Prise</i> Anschlussstelle	Branch Circuit <i>Circuit de la Branche</i> Zweigstromkreis	Phase ₂	Total <i>Total</i> Insgesamt
3/N/PE 240V 60Hz							
C-12HDY-L2120	3/N/PE 208V 60 Hz	A: 16 B: 16	208V 60Hz	9.2	9.2 9.2 9.2	xy yz xz	A: 27.6 B: 27.6
C-12HDY-L2130	3/N/PE 208V 60 Hz	A: 24 B: 24	208V 60Hz	13.9	13.9 13.9 13.9	xy yz xz	A: 41.6 B: 41.6
C-21VY-L2120	3/N/PE 208V 60 Hz	16	208V 60Hz	9.2	9.2 9.2 9.2	xy yz xz	27.6
C-24VY-L30A	3/N/PE 208V 60 Hz	24	208V 60Hz	12 / 13.9	13.9 13.9 13.9	xy yz xz	41.6
C-48VDY-L2120	3/N/PE 208V 60 Hz	A: 24 B: 24	208V 60Hz	9.2	9.2 9.2 9.2	xy yz xz	A: 41.6 B: 41.6

International Models

Model <i>Modèle</i> Modell	Input Current Ratings ₁ <i>L'indice du courant d'entrée</i> Eingangsstromstärke		Output Current Ratings <i>L'indice du courant de sortie</i> Ausgangsstromstärke			
	Voltage <i>Tension</i> Spannung	Current <i>Courant</i> Strom	Voltage <i>Tension</i> Spannung	Outlet <i>Prise</i> Anschlussstelle	Branch Circuit <i>Circuit de la Branche</i> Zweigstromkreis	Total <i>Total</i> Insgesamt
C-4HE-C20	230V 50/60Hz	16	230V 50/60Hz	10	16	16
C-4HE-LP32	230V 50/60Hz	32	230V 50/60Hz	10	16	24
C-12HE-C20	230V 50/60Hz	16	230V 50/60Hz	10	16	16
C-12HE-LP32	230V 50/60Hz	32	230V 50/60Hz	10	16	24
C-12VE-C20	230V 50/60Hz	16	230V 50/60Hz	10	16	16
C-12VE-30932	230V 50/60Hz	32	230V 50/60Hz	10	20	32
C-24HE-P32	230V 50/60Hz	32	230V 50/60Hz	10	20	32
C-24VE-C20	230V 50/60Hz	16	230V 50/60Hz	10	16	16
C-24VE-30932	230V 50/60Hz	32	230V 50/60Hz	10	20	32
C-24VDE-C20	230V 50/60Hz	A: 16 B: 16	230V 50/60Hz	10	16	A: 16 B: 16
C-24VDE-30932	230V 50/60Hz	A: 32 B: 32	230V 50/60Hz	10	20	A: 32 B: 32
C-48VDE-C20	230V 50/60Hz	A: 16 B: 16	230V 50/60Hz	10	16	A: 16 B: 16
C-48VDE-30932	230V 50/60Hz	A: 32 B: 32	230V 50/60Hz	10	20	A: 32 B: 32

¹ All current ratings are in amperes. *Tous les indices de courant sont en ampères.* Alle Angaben der Stromstärke erfolgen in Ampere.

² Each branch circuit or phase consists of: *Chaque circuit de la branche comporte:* Jeder Zweigstromkreis besteht aus:

- 4Hx 2 outlets, *prises*, Anschlüsse. Input, *Entrée*, Eingang A: 1a, 2a
- 12Hx One 6-outlet module; 6 outlets. *1 série de 6 prises de courants, soit au total 6 prises.*
1 gekuppelten Modulen mit je 6 Anschlüssen: 6 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a, 2a, 3a
- 12Vx, 24VDx One 6-outlet module; 6 outlets. *1 série de 6 prises de courants, soit au total 6 prises.*
1 gekuppelten Modulen mit je 6 Anschlüssen: 6 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a, 2a, 3a
- 24Hx Two 6-outlet module; 12 outlets. *2 série de 6 prises de courants, soit au total 12 prises.*
- 24Vx, 48VDx Two 6-outlet module; 12 outlets. *2 série de 6 prises de courants, soit au total 12 prises.*
- 24Vx-xA 2 gekuppelten Modulen mit je 6 Anschlüssen: 12 Anschlüsse. Input, *Entrée*, Eingang A, B: 1a+1b, 2a+3b, 3a+3b
One 6-outlet module (C13) and 2 outlets (C19); 8 outlets,
1 série de 6 prises de courants (C13) et 2 prises (C19); 8 prises,
1 gekuppelten Modulen mit je 6 Anschlüssen und 2 Anschlüsse; 8 Anschlüsse
Input, *Entrée*, Eingang A: 1a, 2a, 3a

Physical Specifications

	Operating	Storage
Temperature	32° to 104° F (0° to 40° C)	-40° to 185° F (-40° to 85° C)
Elevation (above MSL)	0 to 10,000 ft (0 to 3000m)	0 to 50,000 ft (0 to 15000m)
Relative Humidity	10 to 90%, non-condensing	10 to 90%, non-condensing
	Dimensions (H x W x D)	Weight
C-4Hx	1.75 x 17.2 x 7.0 in (45 x 437 x 178 mm)	8.4 lbs (3.8 kg)
C-10Hx	1.75 x 17.2 x 5.0 in (45 x 437 x 127 mm)	7.2 lbs (3.2 kg)
C-12Hx	1.75 x 17.2 x 5.0 in (45 x 437 x 127 mm)	7.2 lbs (3.2 kg)
C-12HDx	3.5 x 17.2 x 10.0 in. (89 x 437 x 254 mm)	20.0 lbs (9.2 kg)
C-12Vx	31.25 x 1.75 x 2.25 in. (794 x 45 x 57 mm)	7.4 lbs (3.3 kg)
C-21Vx	45.0 x 1.75 x 2.25 in. (1160 x 45 x 57 mm)	10.0 lbs (4.5 kg)
C-24Vx	54.0 x 1.75 x 2.25 in. (1372 x 45 x 57 mm)	10.5 lbs (4.7 kg)
C-24Vx-xA	69.0 x 1.75 x 2.25 in. (1753 x 45 x 57 mm)	12.5 lbs (5.6 kg)
C-24VDx	31.25 x 3.5 x 2.25 in. (794 x 89 x 57 mm)	17.1 lbs (7.6 kg)
C-48VDx	54.0 x 3.5 x 2.25 in. (1372 x 89 x 57 mm)	17.4 lbs (7.9 kg)

Branch Circuit Protection



**Always disconnect both power supply cords before opening to avoid electrical shock.
Afin d'éviter les chocs électriques, débranchez les câbles électrique avant d'ouvrir.
Vor dem Öffnen immer Netzleitungen abziehen um elektrischen Schlag zu vermeiden.**

Cabinet Distribution Units feature Branch Circuit protection on all outlets in the form of internal fuses. These fuses meet the strict safety requirements of UL/CSA 60950-1 for Branch Circuit Protection.

Time-Delay Fuses – Class G

Amperes	Bussman Part Number
20	SC-20

CooperBussman product data-sheet #1024

Regulatory Compliance

Product Safety

Units have been safety tested and certified to the following standards:

- USA/Canada UL 60950:2003 and CAN/CSA 22.2 No. 60950-1-03
- European Union EN60950-1:2001

This product is also designed for Norwegian IT power system with phase-to phase voltage 230V.

USA Notification

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense.

Modifications not expressly approved by the manufacturer could void the user's authority to operated the equipment under FCC rules.

Canadian Notification

This Class A digital apparatus complies meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Notification

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022 Electromagnetic Interference
- EN55024 Electromagnetic Immunity
- EN60950-1 Product Safety
- EN61000-3 Harmonics and Flicker



Products with the following mark comply with the RoHS Directive (2002/95/EC) issued by the Commission of the European Community.

Japanese Notification

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

本製品に同梱または付属しております電源コードは、本製品専用です。本製品以外の製品ならびに他の用途に使用しないで下さい。

Chinese Notification

关于符合中国《电子信息产品污染控制管理办法》的声明

产品中有毒有害物质的名称及含量

部件名称 (Parts)	有毒有害物质或元素 (Hazardous Substance)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机箱子组件 (Chassis Subassembly)	O	O	O	O	O	O
印刷板组件 (PCAs)	X	O	O	O	O	O

O 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006 标准规定的限量要求以下。
Indicates that this hazardous substance contained in all homogeneous materials of this part is below the limit requirement in SJ/T 11363-2006.

X 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006 标准规定的限量要求。
Indicates that this hazardous substance contained in at least one of the homogeneous materials of this part is above the limit requirement in SJ/T 11363-2006.

Recycling



Server Technology Inc. encourages the recycling of its products. Disposal facilities, environmental conditions and regulations vary across local, state and country jurisdictions, so Server Technology encourages consultation with qualified professional and applicable regulations and authorities within your region to ensure proper disposal.

Waste Electrical and Electronic Equipment (WEEE)



In the European Union, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

Information on how to recycle this product responsibly in your country, please visit:
www.servertech.com/support/recycling.

Appendix B: Warranty, Product Registration and Support

Warranty

For [Server Technology Warranty](#) information, please see our website.

Product Registration

Registration is your key to special offers and services reserved for Registered Users.

- Excellent Technical Support Services
- Special Update and Upgrade Programs
- Warranty Protection
- Extended Warranty Service
- New Product Information

[Register your products online today!](#)

Technical Support



Experience Server Technology's FREE **SMARTER** Technical Support - [Learn more...](#)

Server Technology understands that there are often questions when installing and/or using a new product. Free Technical Support is provided from 6:00 AM to 7:00 PM, Monday-Friday, Pacific Time.

Server Technology, Inc.

1040 Sandhill Drive

Reno, Nevada 89521 USA

Tel: 775.284.2000

Fax: 775.284.2065

Web: www.servertech.com

Email: support@servertech.com

Return Merchandise Authorization

If you have a unit that is not functioning properly and is in need of technical assistance or repair:

Please review Server Technology's [Return Merchandise Authorization](#) process on our website.



Server Technology

HEADQUARTERS – NORTH AMERICA

Server Technology, Inc.
1040 Sandhill Drive
Reno, NV 89521
United States
+1.775.284.2000 Tel
+1.775.284.2065 Fax
sales@servertech.com
www.servertech.com
www.servertechblog.com

EMEA

Server Technology Intl
Sienna Court
The Broadway
Maidenhead
Berkshire
SL6 1NJ
United Kingdom
+44 (0) 1628 509503 Tel
+44 (0) 1628 509100 Fax
salesintl@servertech.com

APAC

Server Technology, Inc.
Singapore
+65 (0) 6829 7008 Tel
+65 (0) 6234 4574 Fax
salesintl@servertech.com