> **POWER**SOLUTIONS

SI(SAIFOR ®

CDU Product Family

Power Distribution Solutions for the Data Center Equipment Cabinet

THE WORLD LEADER IN POWER MANAGEMENT PRODUCTS & SOLUTIONS

Cabinet power distribution units and power monitoring and measurement solutions for data centers and telecommunications.

Saifor distributes CDUs from Servertech that is experts produce the highest quality rack mount power distribution and monitoring solutions that help manage power capacity, reduce downtime and improve energy efficiency. Server Technology created the intelligent cabinet PDU market and holds the largest number of patents in that industry. Serving the Data Center and Carrier markets, SAIFOR includes among its solutions, the most extensive selection of Sentry CDUs to manage power usage for servers, storage and network equipment. Based on the innovative Server Tech Quality Power Architecture (QPA), Sentry CDUs and Sentry Power Manager provide the industry's most accurate information to maximize rack density, reduce overloading and monitor energy efficiency.

All Sentry CDUs offered by SAIFOR are engineered and manufactured to meet the highest quality standards and are100% performance tested for reliability and accuracy. Server Tech QPA eliminates single points of failure, reducing downtime and costs. The modular architecture is flexible and enables quick delivery of solutions that meet customer-specific requirements. SAIFOR solutions gives IT and Infrastructure Professionals the control to make accurate capacity planning decisions, reduce risks, and meet energy efficiency goals.

CERTIFICATIONS, COMPLIANCE & WARRANTY

All products contained within this brochure carry one or more of the certifications below. Additional agency certifications are available based on specific market requirements.

> European Union (TUVGS mark) to EN 60950-1:2001

> EMC – EN 55022 Class A, EN 55024

> RoHS

> CE

> 2 Year Warranty

FEATURE KEY

Sentry CDU product lines feature two or more of the following assets:

Flexible mounting options
Zero-U button or bracket mounting for mounting vertical CDUs in the back or on the side of the cabinet to avoid consuming valuable "U" space.

Branch circuit protection
All Sentry CDUs meet the UL 60950-1 requirement for branch circuit protection and use either fuses or circuit breakers to protect each branch of outlets.

Input current monitoring
The CDUs exclusive True RMS Current Monitoring is critical to preventing overloads in high-density computing environments. Digital LED displays on the CDU enclosure report the input current of each phase or branch circuit.

Environmental monitoring
External probes, with 3-meter cable, capable of measuring temperature & humidity. Receive SNMP-based or email alerts when conditions exceed defined thresholds.

Expansion module
Our exclusive method for linking additional outlets, on separate CDUs, together under a single IP address, and provides support for A & B power in-feeds.

IP access, security & communications
Web interface, SSL, SSH, Telnet, SNMP & RS-232 access, 10/100 Base T-Ethernet, SSLv3/TLSv1, SNMPv2, TACACS+, LDAP, LDAPS, RADIUS, DHCP, SMTP/Email, & Syslog.

Individual outlet control
Control individual outlets or groups of outlets with ON, OFF, and Reboot functionality to remotely reboot unresponsive servers and network equipment.

Pops™ (Per outlet power sensing)
Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor and Power Factor per outlet.

Pips™ (Per inlet power sensing)
Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Reactance, Accumulated Energy (kWh), and Power Factor per inlet.
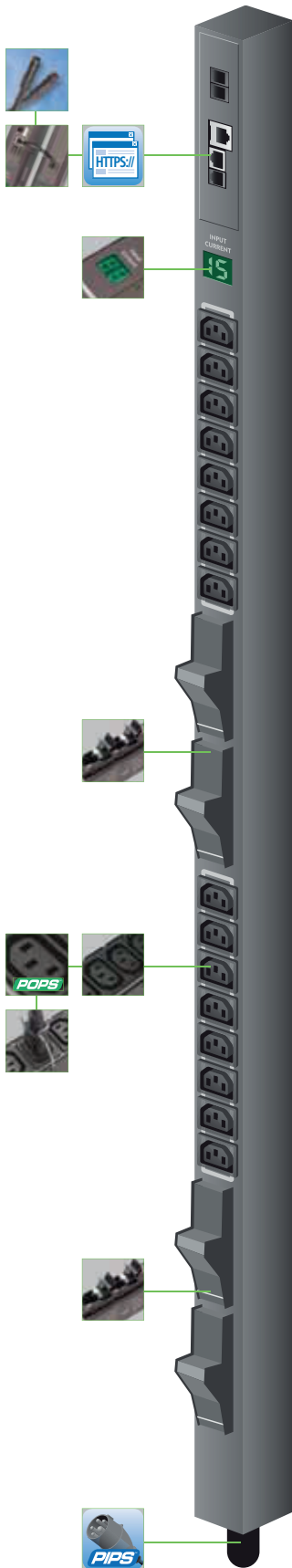
Cable retention clip
Ensures power cords to the connected devices are not accidently unplugged or disconnected.

CDU Product Family

Sentry CDU Family Delivers Power Solutions for any Data Center

Basic CDU®

The entry level Basic CDU products provide reliable power distribution and branch circuit protection for all the devices in the equipment cabinet.

Metered CDU®

The Sentry Metered CDU products provide branch circuit protection and reliable power distribution for all devices in the equipment cabinet.
Local input current monitoring allows the installation engineer to verify the aggregate load on the circuit or phase.

Smart CDU®

The Smart CDU products provide reliable power distribution coupled with remote power and environmental monitoring. Use the network interface to view power, temperature and humidity levels via Web browser, or SNMP-based and email alerts when conditions exceed defined thresholds.
Add an Expansion Module CDU to Smart and Switched CDUs. Link a master and expansion unit using a single IP address.

POPS™ Smart CDU®

Adds (POPS) Per Outlet Power Sensing to the Smart CDU. POPS provides power monitoring per an individual outlet/device. Power information per individual outlet /device includes current, voltage, power (kW), apparent power, crest factor, and power factor. Using our grouping technology, power information is available per device, groups of devices (application), individual CDU or cabinet.

Switched CDU®

The Switched CDU products provide the capability to securely monitor and control cabinet power via a network for a data center or remote branch office.
The Switched CDU's combine networked configuration and management with power distribution and power and environmental monitoring. Reboot a single or dual power server with one command. Receive SNMP-based or email alerts when power or environmental conditions exceed thresholds. Assign access rights to user groups or individuals. Switched CDU products provide the flexibility needed for all data centers and remote sites, including power requirements for high-amperage and high-voltage, EN 60950-1:2001 Branch Circuit Protection, and SNMP traps and email alerts including current monitoring.

POPS™ Switched CDU®

Adds Per Outlet Power Sensing (POPS) to the Switched CDU which provides power monitoring per an individual outlet/device. Power information per individual outlet /device includes current, voltage, power (kW), apparent power, crest factor, and power factor. Using our grouping technology, power information is available per device, groups of devices (application), individual CDU or cabinet.

Fail-Safe Transfer Switch (FSTS)

The Fail Safe Transfer Switch features two input power feeds, from separate AC circuits, to supply single-power equipment with dual, redundant power sources.
If either power in-feed becomes unavailable, the FSTS auto-switches to the remaining power feed source to reestablish power to the connected equipment.

PIPS™ CDU®

Per Inlet Power Sensing (PIPS) CDUs provide power monitoring per inlet/infeed. Power information per infeed includes current, voltage, power, apparent power, crest factor, reactance, power factor and accumulated energy. This information replaces branch circuit monitoring devices typically installed in the power distribution panel or remote power panel (RPP) with higher accuracy and lower cost monitoring of each circuit attached to the CDU.

CDU Product Family

Secure Remote Administration Interface and Smart Load Shedding

SENTRY SMART LOAD SHEDDING

Load Management based on Temperature, In-feed Load, and UPS Status Server Technology is the first to offer datacenter managers the ability to automatically manage Switched CDU power outlets based on key operating parameters, including temperature, in-feed load, and UPS power status. Each outlet may be controlled by one or more of these parameters. Should the temperature or load current exceed defined thresholds or the UPS lose power and go onto battery, all or a portion of the loads may be automatically shed to ensure longer operational life of your critical devices.

FEATURES

> Easy to use, integral, web based GUI configuration tool

> ˝Auto-recovery˝ with a reboot delay time when conditions return to normal

> Each CDU outlet is assigned the IP address of the connected device for shut down notification

> Remote shutdown agent for server shut down

> SNMP trap notifications

> Load shedding event notifications via SNMP traps orEmail alerts
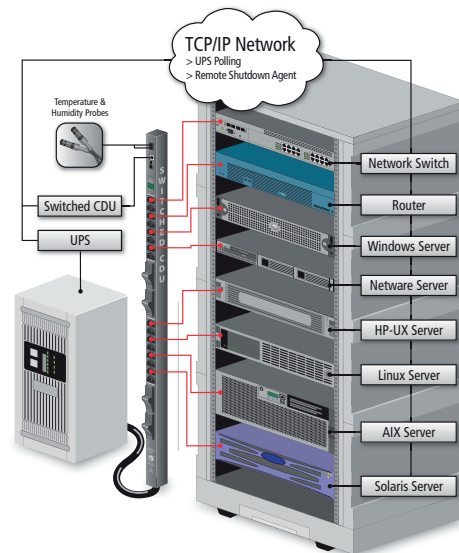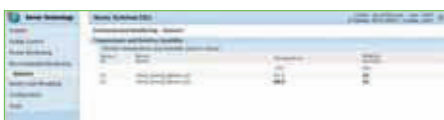

SENTRY ACCESS, SECURITY & COMMUNICATION

Secure Remote Administration Interface

Web Based GUI: Individual Outlet Control Screen

Web Based GUI: System Configuration Screen

Web Based GUI: Environmental Monitoring Screen

FEATURES

> Secure, web based GUI configuration tool

> Temperature Support (Celsius/Fahrenheit) and Humidity (%)

> Logs authentications, configuration changes and system events

> SNMP and email notifications for multiple users of log, event, power, and authorization, configuration messages

> SYSLOG logging protocol support

> Automatic Firmware Updates via FTP

> Strong Password Support and Pre-Login Banner

POWER INFORMATION

> Input Feed Voltage (VAC)

> Input Feed Watts (W)

> System Total Watts (W)

> System Footprint (SqFt / SqM)

> System Watts/Area (W/SqFt / W/SqM)

COMMUNICATION TOOLS

> Web interface, SSL, SSH, Telnet, SNMP & RS-232 access, 10/100 Base T-Ethernet, SSLv3/TLSv1, SNMPv2, TACACS+, LDAP, LDAPS, RADIUS, DHCP, SMTP/Email, and Syslog.

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CDU Power Cords & Accessories
## *Plug and Cord Options for Sentry CDUs*

Saifor provides 16A and 32A products with a variety of input cord options available. Please refer to the Power Cords and cordset options below for different configurations. Shown below are standard power cord and cordset options.1
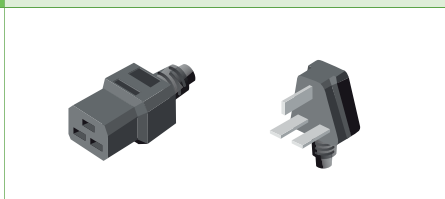
16A PLUGS & CORDS

MODEL	PTCORD-2Outlets
OUTLETS	IEC60320 / C19 to SchukoAmps (A)
VOLTAGE (V)	230V
AMPS (A)	16A
LENGTH	3m
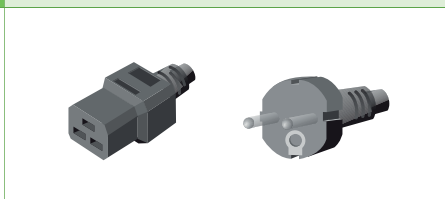
MODEL	PTCORD-3
OUTLETS	IEC60320 / C19 to IEC60320 / BS434 / CEE173-Phase
VOLTAGE (V)	230V
AMPS (A)	16A
LENGTH	3m
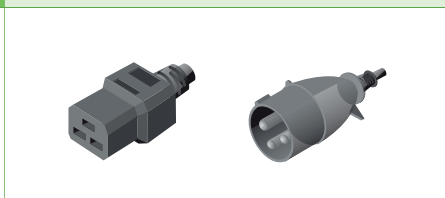
MODEL	PTCORD-4
OUTLETS	IEC60320 / C19 to BS 1363
VOLTAGE (V)	230V
AMPS (A)	16A
LENGTH	3m

ACCESSORY OPTIONS

MODEL	EMTH-1-1
DESCRIPTION	Temperature & Humidity Probes
FUNCTION	Measures cabinet temperature & humidity
LENGTH	3m

MODEL	EMCU-1-1B
DESCRIPTION	Environmental Monitoring Control Unit
FUNCTION	Supports 2 additional EMTH-1-1, water & 4 dry contact closure door sensors
LENGTH	–

MODEL	C20 Inlet Bracket
DESCRIPTION	C20 Inlet Retention Bracket
FUNCTION	Securely fastens C20 cord to chassis
LENGTH	–
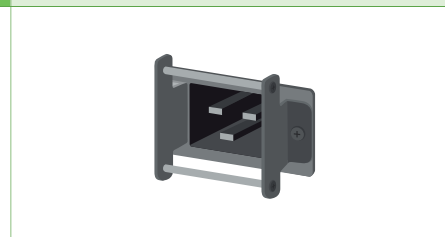
Saifor offers a wide range of products for global markets.
For more information on global products visit our website at **www.saifor.com**

Sentry Power Manager

Power Management Architecture

SENTRY POWER MANAGER
Manage Multiple CDUs Across Multiple Locations

Do you have multiple Sentry CDUs in one or more locations that you would like to access from one central point? Would you like one central location where all alarms can be viewed and logged for reporting, e-mail or SNMP trap notications? No problem! Our Sentry Power Manager (SPM) product is capable of monitoring and managing multiple Sentry devices in IP-based enterprise networks. SPM provides a global view of all Sentry CDUs with the ability to view devices based on their temperature, humidity, current and device status. Besides managing and monitoring all alarm conditions, this information can also be used to provide reporting and trending information for display within SPM or integrated with your existing Building Management System (BMS).

Web Based GUI:
Quickly drill down from a global view to the rack level. Users can setup custom network operation center (NOC) views for whatever they want to display from global dashboard views down to each CDU, cabinet or location.

Event Notification

> Email notification via the CDU to multiple recipients when an event occurs

> SNMP traps via the CDU when an event occurs

> Auto-discovers each CDU for easy configuration

> Easily create a user interface that mirrors the physical deployment of the data center

> Quickly drill down from a global perspective to the rack's actual physical location if there is a problem (quickly identify the alarm and the physical location of the CDU)

> Create outlet clusters to group outlets within a CDU, across linked CDUs or across enterprise locations

Multiple Reporting Options

> Reporting capabilities to produce reports on critical management parameters such as temperature, humidity and current load

> Reports on Current and Power providing the power consumption of each input, total for the rack and/or per square foot of the rack

On-Demand Accessibility

> Real-time view of all active system alarms

> Anytime, anywhere web-based views

> Manage thousands of CDUs from a single console

Compatibility

> Server Technology Sentry CDUs with firmware 5.3+

Web Browsers Supported

> Microsoft Internet Explorer 7.0+

> Mozilla Firefox 2.0+

LINKABLE EXPANSION MODULE

A-Feed
(CS/CW)

B-Feed
(CL/CX)

The Expansion Module CDU, Smart CL or Switched CX, is our exclusive method for linking together outlets on different power circuits.

The Expansion Module CDU, CL or CX, increases the number of managed outlets on a single IP address. Each expansion module links to its parent Smart CS or Switched CW, which contains both network and serial interfaces. When linked to a Smart or Switched CDU, the CL's or CX's outlets are auto-discovered by the Smart or Switched CDUs firmware, and all available outlets are viewable through the firmware.

On the Switched CW, outlets are individually controllable, or groups of outlets can be controlled between the Switched CW & CX with one command. Each Expansion Module CDU can be a single or dual-power feed and a Zero-U or horizontal enclosure.

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Sentry Power Manager

Power Management Architecture

POWER INFORMATION & MANAGEMENT
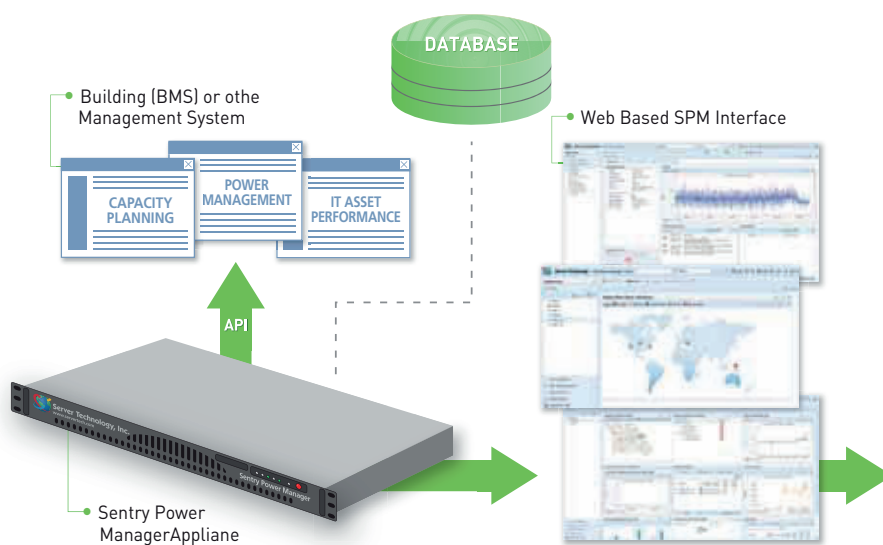
Sentry Power Manager

The Sentry Smart and Switched CDUs are capable of being monitored through the SPM (Sentry Power Manager) tool. Sentry intelligent CDUs, in conjunction with SPM, provide additional power information for consumption purposes and power monitoring as well as trending and power reports. An API allows power and other information to be communicated to a Building Management System (BMS) or other systems.

Sentry Power Manager (SPM) Solutions

> SPM provides a global view of all Sentry CDUs with the ability to view devices based on their temperature, humidity, current and device status. Quickly drill down from global view to your facility maps to an individual CDU.

> Manage and monitor all user-defined alarm conditions on your entire network.

> Group and cluster outlets for remote reboot, power measurement information across a single CDU, a linked CDU, or across the entire network.

> Allows measurement of power consumption and capacity planning.

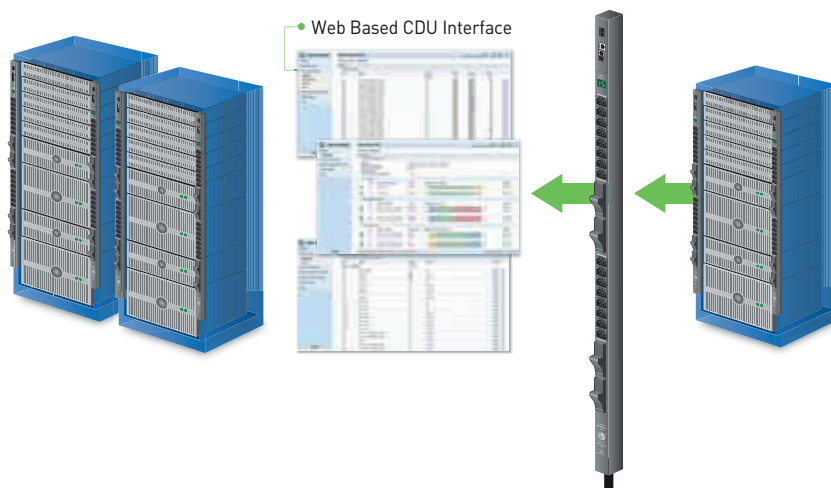> Auto-discover all your CDUs connected to your IP network.

> View Logs for user access, discovery, user actions, and alarms.

> Multiple user levels and permissions including support for LDAP.

> Control individual outlets on Switched CDUs.

Web Based SPM Interface

Sentry Power Manager
- Enterprise Cabinet Power Management
- CDU Auto-Discovery
- Reports & Trends
- Device Monitoring
- Groups & Clusters
- Kilowatt Readings
- Alarms

DATABASE

Building (BMS) or othe Management System

CAPACITY PLANNING

POWER MANAGEMENT

IT ASSET PERFORMANCE

API

Sentry Power ManagerAppliane

PRIMARY ETHERNET PIPELINE

Web Based CDU Interface

Smart or Switched CDU
- Rack Level Power Monitoring
- Environmental Monitoring
- Outlet Groups
- Alarms
- Outlet Management (Switched CDU)

Smart & Switched CDU with PIPS

Per Inlet Power Sensing CDUs

PIPS SMART & SWITCHED CDU

Introducing the best infeed power measurement technology on the market for data center rack-level power monitoring.

PIPS technology replaces power monitoring at the RPP (Remote Power Panel) in data centers with higher accuracy and lower cost monitoring of each power circuit attached to a CDU. This new product feature also replaces the already accurate Digital True RMS feature currently available on intelligent Smart, Switched and POPS CDUs by bringing more types of power measurements from the power infeed to the built in graphic user interface (GUI).

Expect the same quality and functionality on current intelligent CDUs, but with an increased level of information to help you make the critical decisions regarding your facility.

PIPS Features

Sentry PIPS works in conjunction with all of the features of a Smart, Switched or POPS CDU with the ability to provide power monitoring per inlet/infeed. Power information per infeed includes current, voltage, power, apparent power, crest factor, reactance, power factor and accumulated energy. The PIPS CDU is capable of being accessed through either a secure network or serial connection. The secure integral web interface provides a simple and easy way to monitor the CDU. Configuration choices include: SNMP traps, email alerts, grouping, and all security and communication settings. Research shows that measuring at the infeed level is the most accurate place to measure power and is recommended by the Green Grid.

Communication Tools

> Web Interface	> SNMPv2
> RS-232 access	> TACACS+
> 10/100 Base-T Ethernet	> LDAP
> SMTP/Email	> LDAPS
> Telnet	> RADIUS
> SSH	> DHCP
> SSLv3/TLSv1	> Syslog

POWER INFORMATION & MANAGEMENT
Internal Web Interface

System Configuration

Intelligent CDUs enable network access to remotely configure access, outlets, alarms, thresholds, and more.

Easy to Read Summary Screen

The new summary screen allows users to quickly confirm the status of the rack power & environmental conditions.

Sentry PIPS (Per Inlet/Infeed Power Information)

> Current (Amps)
> Power (Watts)
> Power Factor
> Neutral Current: Measures neutral current

> Voltage (Volts)
> Apparent Power (VA)
> Accumulated Energy (kWh)

Environmental Monitoring

No additional IP address needed to obtain temperature and humidity readings. A pair of probes (EMTH-1-1) can be added to any intelligent master CDU (Smart or Switched). Additional probes can be added using an EMCU-1-1B (page 5).

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 Switched CDU

Per Outlet Power Sensing CDUs

POPS SWITCHED CDU
Integral Web Interface

Blade servers and high density computing power requirements continue to increase and POPS is the right CDU for that environment. With device-level output control, you can monitor, track and manage servers, IT equipment and the equipment cabinet infrastructure. With the ability to measure, monitor, and report power down to the rack or outlet level, this solution follows the Green Grid's recommendations for acquiring the most accurate power monitoring data.
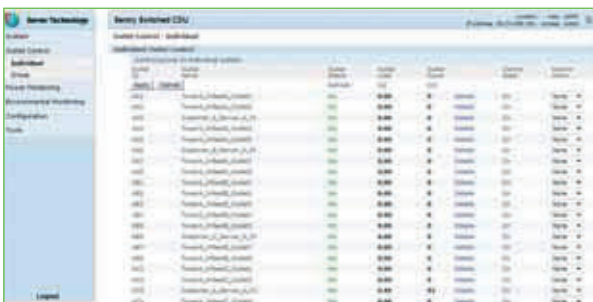
POPS Features

> Simple, secure, integral web interface GUI configuration tool

> Temperature and Humidity Support

> Authentication logging, configuration changes and system events

> Secure Syslog protocol support

> Email notifications of log, event, authorization, power and configuration messages

> Automatic Firmware Updates via FTP server

> Strong Password Support and Pre-Login Banner

> Ability to Ping an IP address to see if the device is responding

> Grouping of outlets across Master & Expansion CDUs

> SNMP: Traps based on Status, Changes, Load, Temperature and Humidity

> Supports 104 user accounts and 18 simultaneous logins with a dedicated SNMP connection

Communication Tools

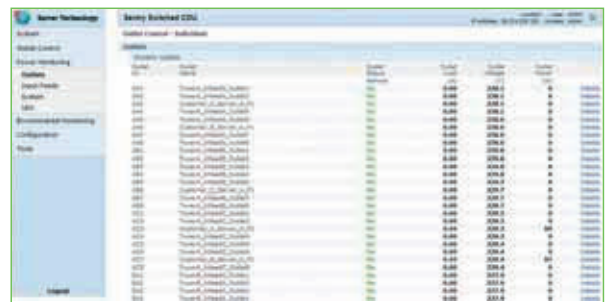|	
> Web Interface	> SNMPv2
> SNMP & RS-232 access	> TACACS+
> 10/100 Base T-Ethernet	> LDAP
> SMTP/Email	> LDAPS
> Telnet	> RADIUS
> SSL	> DHCP
> SSH	> Syslog
> SSLv3/TLSv1	

POWER INFORMATION & MANAGEMENT
Internal Web Interface

Outlet Control Power Monitoring

> Individual Outlet Control

> Current Load Monitoring

> Power Monitoring

> Additional Details

Per CDU Power Information

> Current Load > System Total Watts (W)

> Infeed Voltage (VAC) > System Footprint (SqFt / SqM)

> Input Feed Watts (W) > System Watts (W/SqFt / W/SqM)

Grouped Outlets Power Information

> Cabinet (single IP address using master/expansion configuration for two CDUs)

> Device (Multiple Outlets)

> Group of Devices (Application)

> Individual CDU

Sentry POPS™ (Per Outlet Power Sensing)

> Current Load (A) > Apparent Power (VA)

> Voltage (V) > Crest Factor

> Power (W) > Power Factor

Fail-Safe Transfer Switch (FSTS)

Horizontal Rack Mounted Enclosures

[1] No Input Current Monitoring

[2] Internal Branch Circuit Protection

MODEL	CS-2HF[2]
Outlets	(2) C19
Input Voltage (V)	230V
Amps (A)	32A
Cabinet kW	7.3kW
Output Voltage (V)	230V
Dimensions	1U	178mm depth

CS-2HF[2]

[1] No Input Current Monitoring

[2] Internal Branch Circuit Protection

MODEL	PTTS-H008[12]
Outlets	(8) C13
Input Voltage (V)	230V
Amps (A)	16A
Cabinet kW	3.6kW
Output Voltage (V)	230V
Dimensions	1U	178mm Depth

PTTS-H008[12]

[1] No Input Current Monitoring

[2] Internal Branch Circuit Protection

MODEL	CW-16HFE[2]
Outlets	(16) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	2U	178mm Depth

CW-16HFE[2]

Basic CDU

Zero-U Vertical Enclosures

MODEL	CB-12H2	CB-24V2	CB-24VE
Outlets	(12) C13	(24) C13	(24) C13
Input Voltage (V)	230V	230V	230V
Amps (A)	16A	16A	16A or 32A
Cabinet kW	3.6kW	3.6kW	3.6kW or 7.3kW
Output Voltage (V)	230V	230V	230V
Dimensions	10U	432mm	18U	800mm	20U	862mm

CB-12H2

CB-24V2

CB-24VE

Metered CDU
Zero-U Vertical Enclosures
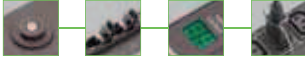
MODEL	C-12VE	C-24VE
Outlets	(12) C13	(24) C13
Input Voltage (V)	230V	230V
Amps (A)	16A or 32A	16A or 32A
Cabinet kW	3.6kW or 7.3kw	3.6kW or 7.3kw
Output Voltage (V)	230V	230V
Dimensions	18U | 794mm	31U | 1372mm
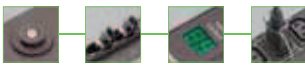
MODEL	C-24VDE	C-48V4
Outlets	(24) C13	(48) C13
Input Voltage (V)	230V	3-Phase 230/400V
Amps (A)	16A or 32A	16A or 32A
Cabinet kW	7.3kW or 14.7kW	11kW or 22kW
Output Voltage (V)	230V	230V
Dimensions	18U | 794mm	43U | 1880mm

C-12VE

C-24VE

C-24VDE

C-48V4

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Metered CDU
Horizontal Rack Mounted Enclosures

MODEL	C-4HE
Outlets	(4) C19
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	1U	178mm Depth

C-4HE

MODEL	C-12HE
Outlets	(12) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	1U	127mm Depth

C-12HE

MODEL	C-24HE
Outlets	(24) C13
Input Voltage (V)	230V
Amps (A)	32A
Cabinet kW	7.3kW
Output Voltage (V)	230V
Dimensions	1U	127mm Depth

C-24HE

MODEL	C-4HDE (Dual Input)
Outlets	(4) C19
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	2U	180mm Depth

C-4HDE (Dual Input)
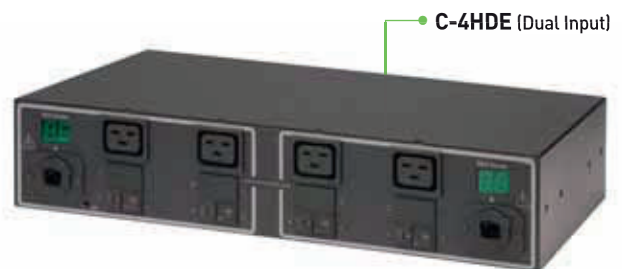
MODEL	C-12HDE
Outlets	(12) C19
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	7.3kW or 14.7kW
Output Voltage (V)	230V
Dimensions	2U	254mm Depth

C-12HDE

Smart CDU
Zero-U Vertical Enclosures

MODEL	CS-16VE-MX	CS-16VE	CS-18V4	CS-24VE
Outlets	(16) C13	(16) C13	(18) C19	(24) C13
Input Voltage (V)	230V	230V	3-Phase 230/400V	230V
Amps (A)	16A	16A or 32A	16A or 32A	16A or 32A
Cabinet kW	3.6kW	3.6kW or 7.3kW	11kW or 22kW	3.6kW or 7.3kW
Output Voltage (V)	230V	230V	230V	230V
Dimensions	23U	1003mm	29U	1257mm	40U	1753mm	40U	1753mm

MODEL	CS-24VE (Busway)	CS-24V4	CS-24VE-MA
Outlets	(18) C13 + (6) C19	(24) C13	(18) C13 + (6) C19
Input Voltage (V)	230V	3-Phase 230/400V	230V
Amps (A)	16A or 32A	16A or 32A	16A or 32A
Cabinet kW	3.6kW or 7.3kW	11kW or 22kW	3.6kW or 7.3kW
Output Voltage (V)	230V	230V	230V
Dimensions	37U	1620mm	40U	1753mm	40U	1753mm

CS-16VE-MX

CS-16VE

CS-18V4

CS-24VE

CS-24VE (Busway)

CS-24V4

CS-24VE-MA
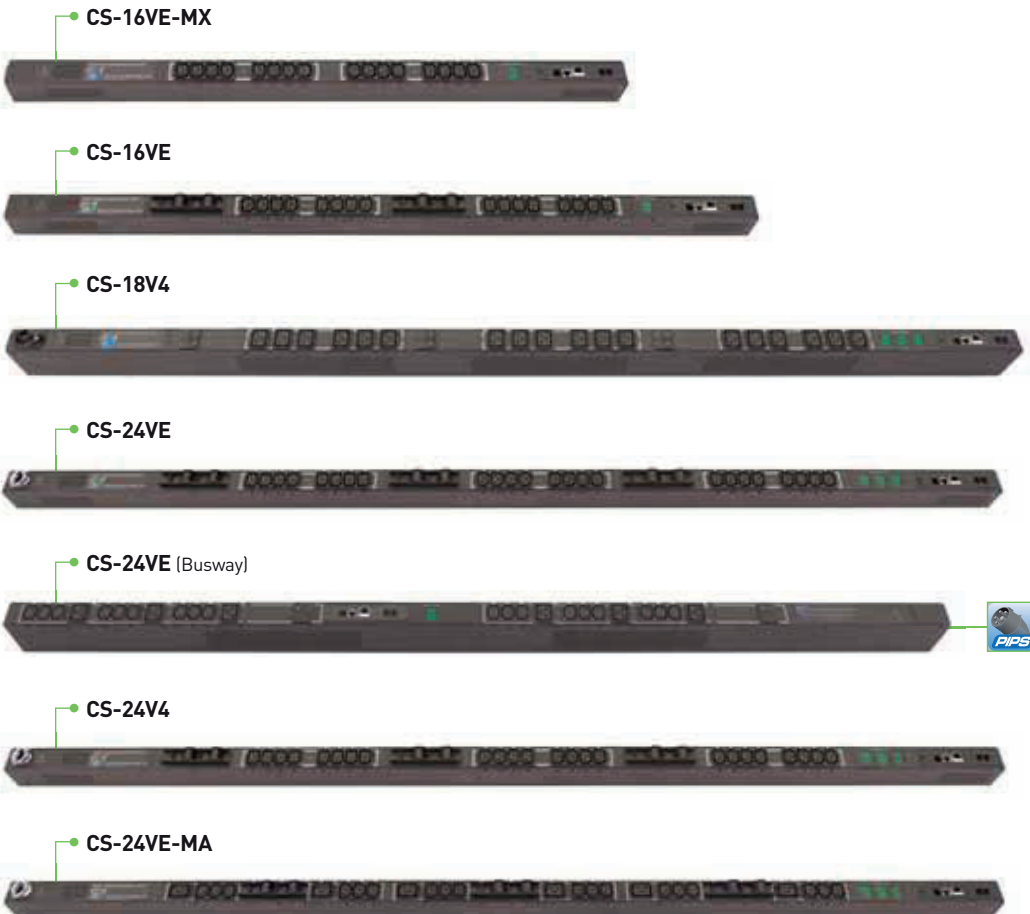
Smart CDU
Zero-U Vertical Enclosures

MODEL	CS-24V4-A	CS-24V4-A9	CS-24V4-A3
Outlets	(18) C13 + (6) C19	(12) C13 + (12) C19	(24) C19
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400 V	3-Phase 230/400 V
Amps (A)	16A or 32A	16A or 32A	63A
Cabinet kW	11kW or 22kW	11kW or 22kW	43.4kW
Output Voltage (V)	230V	230V	230V
Dimensions	40U | 1753mm	40U | 1753mm	43U | 1905mm

MODEL	CS-36V4	CS-36V4-A4C	CS-48VDE
Outlets	(36) C13	(24) C13 + (12) C19	(48) C13
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400 V	230V
Amps (A)	32A	16A or 32A	16A or 32A
Cabinet kW	22kW	11kW or 22kW	7.3kW or 14.7kW
Output Voltage (V)	230V	230V	230V
Dimensions	39U | 1727mm	42U | 1867mm	31U | 1372mm

CS-24V4-A

CS-24V4-A9

CS-24V4-A3

CS-36V4

CS-36V4-A4C

CS-48VDE
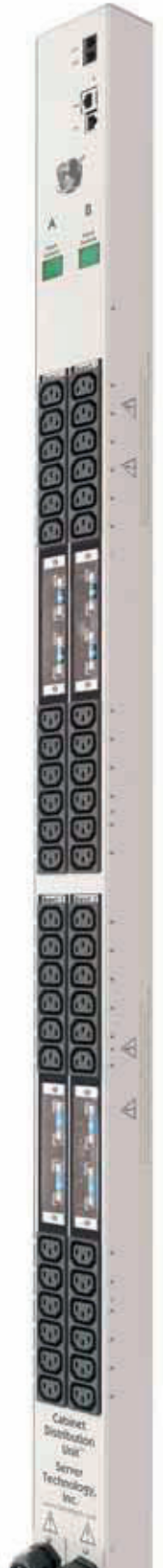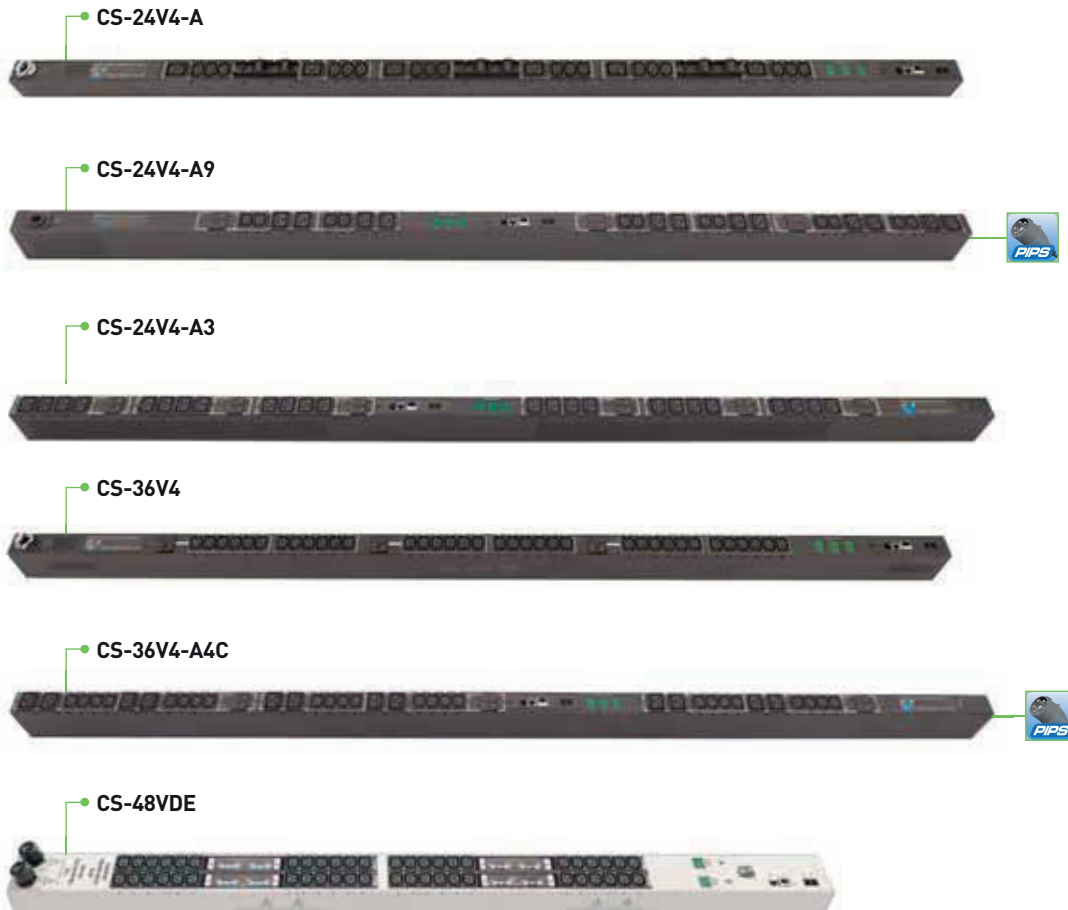
Smart CDU
Smart Modular 3-Phase CDU

MODEL	Sample Installation
Outlets	Smart Modular 3-Phase Master
Input Voltage (V)	(CS-3VD / VY) CDU with
Amps (A)	(3) Basic Satellite CDUs
Cabinet kW	(CB-8V2-A) connected
Output Voltage (V)	—
Dimensions	—

SAMPLE INSTALLATION

CS-3V4

CL-3V4

MODEL	CS-3V4	CS-3V4
Outlets	Master	Expansion
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400V
Amps (A)	32A	32A
Cabinet kW	22kW	22kW
Output Voltage (V)	230V	230V
Dimensions	8U | 347mm	8U | 347mm

MODEL	CB-4V2	CB-8V2-A	CB-8V2-B	CB-10V2
Outlets	(4) C19	(6) C13 + (2) C19	(4) C13 + (4) C19	(10) C13
Input Voltage (V)	230V	230V	230V	230V
Amps (A)	32A	32A	32A	32A
Cabinet kW	7.3kW	7.3kW	7.3kW	7.3kW
Output Voltage (V)	230V	230V	230V	230V
Dimensions	8U | 347mm	8U | 347mm	8U | 347mm	8U | 347mm

CB-4V2

CB-8V2-A

CB-8V2-B

CB-10V2

>POWERSOLUTIONS

SAIFOR

Smart CDU
Smart Power Monitor & Horizontal Rack Mounted Enclosures

MODEL	CS-12HDE
Outlets	(12) C19
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	7.3kW or 14.7kW
Output Voltage (V)	230V
Dimensions	2U | 254mm Depth

CS-12HDE

MODEL	CS-2HDE
Outlets	(2) C19
Input Voltage (V)	230V
Amps (A)	16A
Cabinet kW	3.6kW
Output Voltage (V)	230V
Dimensions	43U | 1880mm

CS-2HDE

MODEL	CS-2HDE Smart Power Monitor
Outlets	(2) 60309
Input Voltage (V)	230V
Amps (A)	32A
Cabinet kW	14.7kW
Output Voltage (V)	230V
Dimensions	1U | (254mm) Depth

CS-2HDE Smart Power Monitor

MODEL	CS-2HD4 Smart Power Monitor
Outlets	(2) 60309
Input Voltage (V)	3-Phase 230/400V
Amps (A)	16A or 32A
Cabinet kW	22kW or 44kW
Output Voltage (V)	230V
Dimensions	1U | (254mm) Depth

CS-2HD4 Smart Power Monitor

Switched CDU
Zero-U Vertical Enclosures

MODEL	CW-16VE-MX	CW-16VE	CW-24VE	CW-24VE-A1
Outlets	(16) C13	(16) C13	(24) C13	(18) C13 + (6) C19
Input Voltage (V)	230V	230V	230V	230V
Amps (A)	16A	16A or 32A	16A or 32A	16A or 32A
Cabinet kW	3.6kW	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage (V)	230V	230V	230V	230V
Dimensions	23U | 1003mm	29U | 1257mm	40U | 1753mm	40U | 1753mm

MODEL	CW-24V4	CW-24V4-A1	CW-32VDE
Outlets	(24) C13	(18) C13 + (6) C19	(32) C13
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400V	230V
Amps (A)	16A or 32A	16A or 32A	16A or 32A
Cabinet kW	11kW or 22kW	11kW or 22kW	7.3kW or 14.7kW
Output Voltage (V)	230V	230V	230V
Dimensions	40U | 1753mm	40U | 1753mm	29U | 1270mm

CW-16VE-MX

CW-16VE

CW-24VE

CW-24VE-A1

CW-24V4

CW-24V4-A1

CW-32VDE

Switched CDU
Horizontal Rack Mounted Enclosures

MODEL	CW-2H2
Outlets	(2) C13
Input Voltage (V)	230V
Amps (A)	16A
Cabinet kW	3.6kW
Output Voltage (V)	230V
Dimensions	1U | 140mm Depth

CW-2H2

MODEL	CW-8HE
Outlets	(8) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	1U | 178mm Depth

CW-8HE

MODEL	CW-16HE
Outlets	(16) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	2U | 178mm Depth

CW-16HE

MODEL	CW-16HDE
Outlets	(16) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	2U | 178mm Depth

CW-16HDE

POPS Smart CDU

Zero-U Vertical Enclosures

MODEL	CSG-24VE	CSG-24V4
Outlets	(18) C13 + (6) C19	(12) C13 + (12) C19
Input Voltage (V)	230V	3-Phase 230/400V
Amps (A)	16A or 32A	16A or 32A
Cabinet kW	3.6kW or 7.3kW	11kW or 22kW
Output Voltage (V)	230V	230V
Dimensions	35U | 1550mm	41U | 1794mm

MODEL	CWG-16VE-A1	CWG-24VE-A1
Outlets	(12) C13 + (4) C19	(18) C13 + (6) C19
Input Voltage (V)	230V	230V
Amps (A)	16A or 32A	16A or 32A
Cabinet kW	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage (V)	230V	230V
Dimensions	29U | 1256mm	40U | 1753mm

CSG-24VE

CSG-24V4

CWG-16VE-A1

CWG-24VE-A1

POPS Switched CDU

Zero-U Vertical Enclosures

MODEL	CWG-VE-C1	CWG-24V4-A1
Outlets	(18) C13 + (6) C19	(18) C13 + (6) C19
Input Voltage (V)	230V	3-Phase 230/400V
Amps (A)	16A or 32A	16A or 32A
Cabinet kW	3.6kW or 7.3kW	11kW or 22kW
Output Voltage (V)	230V	230V
Dimensions	37U	1625mm	40U	1753mm

MODEL	CWG-24V4x458-A1	CWG-24V4-A9
Outlets	(18) C13 + (6) C19	(12) C13 + (12) C19
Input Voltage (V)	3-Phase 230/400V	3-Phase 230/400V
Amps (A)	16A or 32A	16A or 32A
Cabinet kW	11kW or 22kW	11kW or 22kW
Output Voltage (V)	230V	230V
Dimensions	40U	1753mm	40U	1753mm

CWG-VE-C1

CWG-24V4-A1

CWG-24V4x458-A1

CWG-24V4-A9

POPS Switched CDU
Horizontal Rack Mounted Enclosures

MODEL	CWG-8HE
Outlets	(8) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	1U	178mm Depth

CWG-8HE
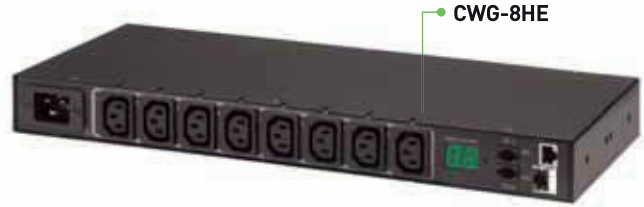
MODEL	CWG-16HE
Outlets	(8) C13
Input Voltage (V)	230V
Amps (A)	16A or 32A
Cabinet kW	3.6kW or 7.3kW
Output Voltage (V)	230V
Dimensions	2U	178mm Depth

CWG-16HE

> POWERSOLUTIONS

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