



## Stay Powered



## Be Supported



## Get Ahead



### Basic & Metered PDU

Entry level PDUs that provide reliable power distribution; with or without local current meters.

### PRO2™ PDU

The next evolution in PDU design; with a shallower form-factor, faster processing, and more memory. Your Uptime solution.

### Smart & Switched PDU

Adds local current meters, network accessible power and environmental monitoring; with or without control of individual outlets.

### Sentry Power Manager (SPM)

Award winning, most comprehensive and affordable rack-level solution for measurement and reporting. Your Capacity Planning solution.

### PIPS® & POPS® PDU

Power monitoring per individual outlet or device in addition to the features of the standard Smart & Switched PDU.

### HDOT® PDU

High-density outlet PDUs feature 20% more outlets in the same form factor as traditional PDUs. Your High Density solution.

**YOUR POWER STRATEGY EXPERTS**

# Server Technology & Rack PDU Features

## Power Management Solutions for the Data Center Equipment Cabinet



### Data Center Rack PDUs and Power Management Solutions

Server Technology's power strategy experts have provided power solutions for labs, data centers, and telecommunications operations for 30 years. Over 60,000 customers around the world rely on our rack power distribution units and award winning power management solutions to reduce downtime, facilitate capacity planning, improve energy utilization, and drive efficiency. With the best quality, best technical support and most patents, Server Technology products provide uncompromising reliability, innovation, and value for the datacenter.

Only with Server Technology will customers **Stay Powered, Be Supported & Get Ahead.**

### Rack PDU Feature Key

Server Technology PDU Feature Options:



#### Branch Circuit Protection

PDUs are UL 60950-1 certified for branch circuit protection and use fuses or circuit breakers to protect each outlet branch.



#### Input Current Monitoring

Easy-to-read LEDs display current per phase to help prevent overloads & simplify 3-phase load balancing in high density cabinets.



#### Temperature/Humidity Monitoring

Master and Link units each support two external 10' (3m) T/H probes. Receive SNMP-based alerts and email notifications.



#### Linked Expansion

Exclusive method for linking additional PDUs together under a single IP address with support for A & B power in-feeds.



#### Star Multi-link Expansion Kit **PRO2**

PRO2 provides the ability to link up to four power circuits using one IP address. Kit sold separately.



#### IP Access, Security & Communications

Web, SSH, Telnet, SNMPv2c & v3, RS-232 serial, 10/100 Base T-Ethernet, LDAP(S), TACACS+, RADIUS, DHCP, & SMTP/email.



#### Outlet Control

On Switched PDUs, cycle power to individual outlets or groups of outlets to reboot servers; or to power off unused receptacles.



#### POPS® (Per Outlet Power Sensing)

Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, and Energy per outlet.



#### PIPS® (Per Inlet Power Sensing)

Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, & Energy per inlet.



#### Startup Stick™

The quick and easy solution to CDU configuration when DHCP is not available.



#### HDOT® (High Density Outlet Technology)

Maximize outlet density with our uniquely designed, high density modules for standard C13 & C19 outlets.



#### Alternating Phase

Phased power is alternated between each outlet, instead of each branch, which simplifies load balancing and clutter.



#### Branch Current Monitoring **PRO2**

PRO2 monitors current at each breaker/fuse branch and alerts when high usage risks a tripped circuit.



#### High Temperature Rating

Products are tested and approved for safe and reliable operation in 60°C (140°F) data center environments.



#### Hot Swappable Network Card with Backup Power **PRO2**

Network access is ensured when power is lost to the Master unit with backup power provided by the primary link unit.



#### Power Pivot™

The 90° rotatable power cord allows for standardized deployment at any facility no matter where power must be routed.



#### ST Eye Mobile App with Bluetooth Connectivity

The best PDU LCD is the one in your hand. Attach the ST Eye Bluetooth module for access to power data & system settings.



#### Flexible Mounting

Includes standard button mounts along with provisions for custom mounting brackets (contact Server Tech for details).



#### Cable Retention

Reduces accidental disconnects by ensuring that power cords are solidly connected to their respective devices.



#### Color Coded PDUs

Select from six colors to designate PDU circuits in the data center — black, white, red, green, blue, and yellow.

# Rack PDU Product Family

## Features and Design



### Basic PDU

Basic PDU is an entry level product that provides reliable power distribution and branch circuit protection for all the devices in the equipment cabinet.

### Metered PDU

Metered PDU 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 PDU

Smart PDU 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 PDU to Smart and Switched PDUs. Link a master and expansion unit using a single IP address.

### Switched PDU

Switched PDU products provide the same reliable power distribution, monitoring, and alerting as the Smart PDU while adding outlet On/Off/Reboot control. Use the Switched PDU to cycle power on dual power IT equipment with one command. With outlet control, gain features like power-up sequencing and smart load shedding.

### POPS® Smart & Switched PDU **POPS**

Adds Per Outlet Power Sensing (POPS) to the Switched PDU 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 PDU or cabinet.

### PIPS® Smart & Switched PDU **PIPS**

Per Inlet Power Sensing (PIPS) PDUs provide expansive high-accuracy power monitoring per inlet/infeed. This includes current, voltage, power (kW), apparent power, crest factor, power factor, and accumulated energy. With this feature there is no need to add more expensive, less accurate panel monitoring upstream.

### PRO2™ PDU **PRO2**

Improve uptime by maintaining high availability to your data through redundantly powered hot-swappable network cards and multi-link capability. Gain additional insight into rising loads or heat through multi-level alarms.

### Fail-Safe Transfer Switch (FSTS)

The Fail-Safe Transfer Switch features two input power feeds, providing redundancy for single-supply equipment. If either power in-feed halts, the FSTS auto-switches to the remaining in-feed to retain power to the equipment.

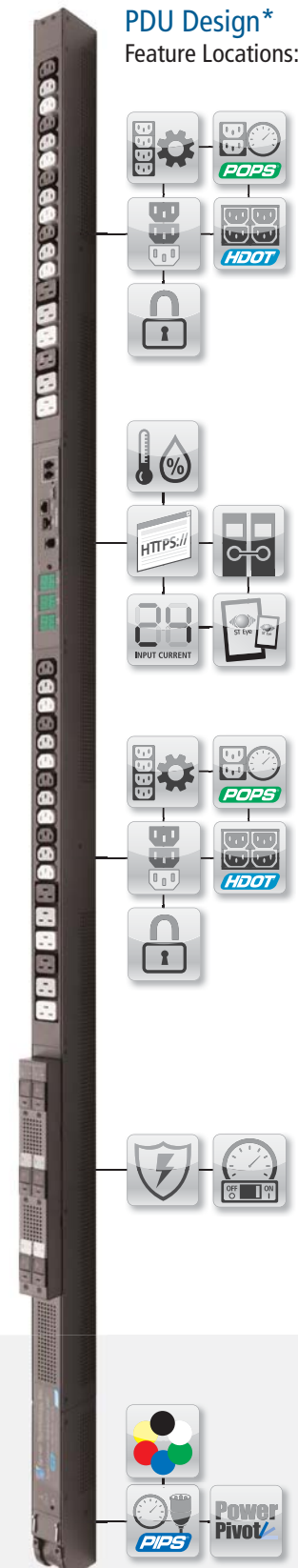
\*Some features may only be available on select models. Please consult a Power Strategy Expert for specific product information.

### Certifications, Compliance & Warranty

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

- > cTUVus Mark to UL 60950-1:2007 and CAN/CSA 22.2 No. 60950-1-07
- > TUVGS Mark to EN 60950-1:2006 + A11
- > EMC to EN 55022 Class A, EN 55024, CISPR 22 Class A
- > FCC Class A, Part 15
- > CE Mark
- > RoHS/WEEE
- > 2-Year Warranty

### PDU Design\* Feature Locations:





# PIPS® Smart & Switched PDU

Per Inlet Power Sensing PDUs



## PIPS Smart & Switched PDU

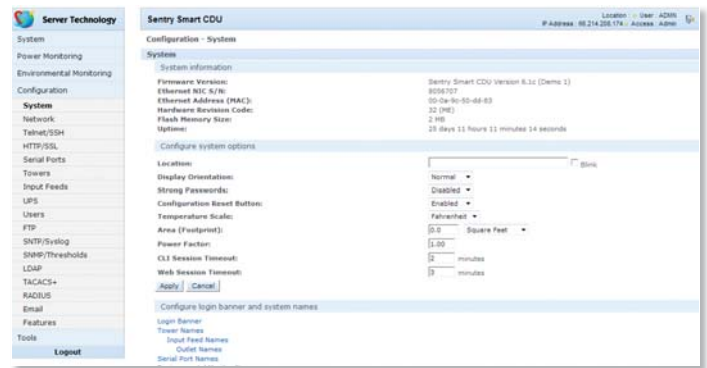
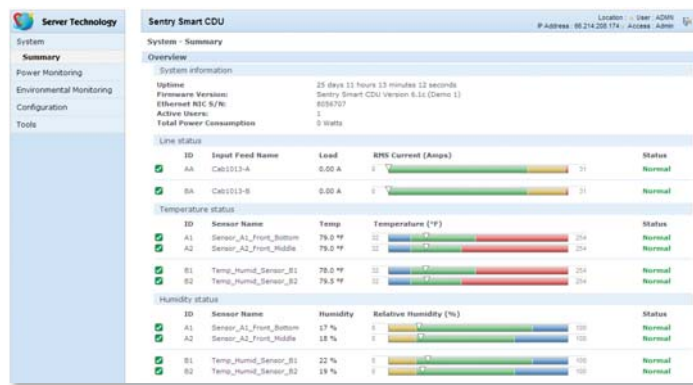
The best infeed power measurement technology on the market for data center rack-level power monitoring.

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 PDU. This feature enhances equipped Smart, Switched, and POPS PDUs with the most accurate and extensive metrics on the market. Expect the same quality and functionality on current intelligent PDUs, but with an increased level of information to help you make the critical decisions regarding your facility.

## PIPS Features

PIPS works in conjunction with all of the features of a Smart, Switched or POPS PDU 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 PDU 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 PDU. Configuration choices include: SNMP traps, email alerts, grouping, and all security and communication settings (see page-2 for full list.)

## PIPS Power Information & Management Web Interface

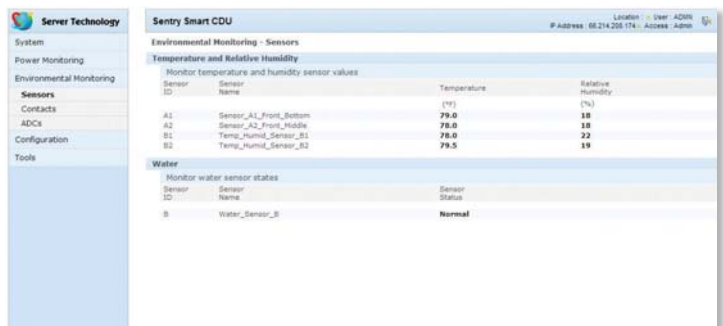
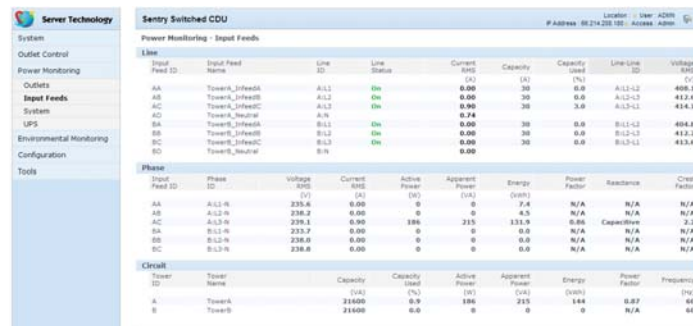


### Easy to Read Summary Screen

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

### System Configuration

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



### Sentry PIPS (Per Inlet/Infeed Power Information)

- > Current (Amps)
- > Voltage (Volts)
- > Power (Watts)
- > Apparent Power (VA)
- > Power Factor
- > Accumulated Energy (kWh)
- > Neutral Current

### 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 PDU (Smart or Switched). Additional probes can be added using an EMCU-1-1B (see page-28).

# POPS® Smart & Switched PDU

Per Outlet Power Sensing PDUs

## POPS Smart & Switched PDU

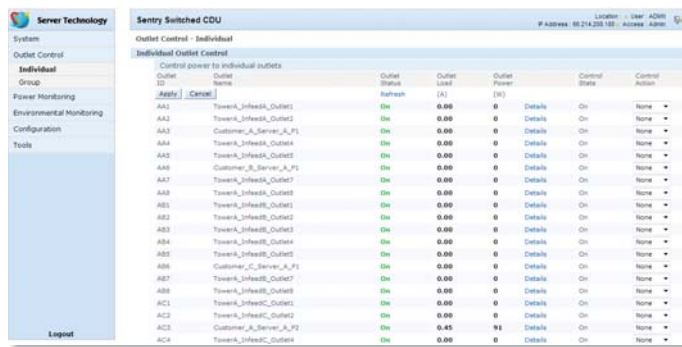
The best outlet power measurement technology on the market for data center rack-level power monitoring.

Blade servers and high density computing power requirements continue to increase and POPS is the right PDU 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.

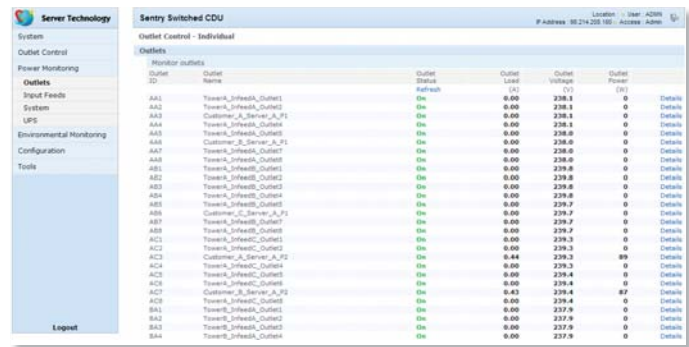
## POPS Features

- > Simple, secure, integral web interface GUI configuration tool
- > Temperature and Humidity Support
- > Authentication logging, configuration changes and system events
- > Secure Syslog protocol support
- > Automatic Firmware Updates via FTP server
- > Emails log, event, authorization, power & configuration messages
- > 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 PDUs
- > SNMP: Traps based on Status, Changes, Load, Temperature & Humidity

## POPS Power Information & Management Web Interface



ID	Name	Status	Outlet Load (A)	Outlet Power (W)	Control State	Control Action
AA1	TowerA_infeedA_Outlet1	On	0.00	0	Details	On
AA2	TowerA_infeedA_Outlet2	On	0.00	0	Details	On
AA3	Customer_A_Server_A_F1	On	0.00	0	Details	On
AA4	TowerA_infeedA_Outlet4	On	0.00	0	Details	On
AA5	TowerA_infeedA_Outlet5	On	0.00	0	Details	On
AA6	Customer_B_Server_A_F1	On	0.00	0	Details	On
AA7	TowerA_infeedA_Outlet7	On	0.00	0	Details	On
AA8	TowerA_infeedA_Outlet8	On	0.00	0	Details	On
AA9	TowerA_infeedA_Outlet9	On	0.00	0	Details	On
AA0	TowerA_infeedA_Outlet0	On	0.00	0	Details	On
AB1	TowerA_infeedB_Outlet1	On	0.00	0	Details	On
AB2	TowerA_infeedB_Outlet2	On	0.00	0	Details	On
AB3	TowerA_infeedB_Outlet3	On	0.00	0	Details	On
AB4	TowerA_infeedB_Outlet4	On	0.00	0	Details	On
AB5	TowerA_infeedB_Outlet5	On	0.00	0	Details	On
AB6	Customer_C_Server_A_F1	On	0.00	0	Details	On
AB7	TowerA_infeedB_Outlet7	On	0.00	0	Details	On
AB8	TowerA_infeedB_Outlet8	On	0.00	0	Details	On
AB9	TowerA_infeedB_Outlet9	On	0.00	0	Details	On
AC1	TowerA_infeedC_Outlet1	On	0.00	0	Details	On
AC2	TowerA_infeedC_Outlet2	On	0.00	0	Details	On
AC3	Customer_A_Server_A_F2	On	0.45	91	Details	On
AC4	TowerA_infeedC_Outlet4	On	0.00	0	Details	On



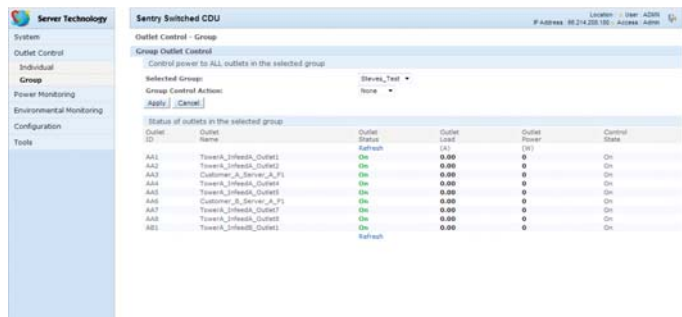
Outlet ID	Outlet Name	Outlet Status	Outlet Load (A)	Outlet Voltage (V)	Outlet Power (W)	Outlet Power
AA1	TowerA_infeedA_Outlet1	On	0.00	238.1	0	Details
AA2	TowerA_infeedA_Outlet2	On	0.00	238.1	0	Details
AA3	Customer_A_Server_A_F1	On	0.00	238.1	0	Details
AA4	TowerA_infeedA_Outlet4	On	0.00	238.1	0	Details
AA5	TowerA_infeedA_Outlet5	On	0.00	238.0	0	Details
AA6	Customer_B_Server_A_F1	On	0.00	238.0	0	Details
AA7	TowerA_infeedA_Outlet7	On	0.00	238.0	0	Details
AA8	TowerA_infeedA_Outlet8	On	0.00	238.0	0	Details
AA9	TowerA_infeedA_Outlet9	On	0.00	238.0	0	Details
AB1	TowerA_infeedB_Outlet1	On	0.00	239.8	0	Details
AB2	TowerA_infeedB_Outlet2	On	0.00	239.8	0	Details
AB3	TowerA_infeedB_Outlet3	On	0.00	239.8	0	Details
AB4	TowerA_infeedB_Outlet4	On	0.00	239.8	0	Details
AB5	TowerA_infeedB_Outlet5	On	0.00	239.7	0	Details
AB6	Customer_C_Server_A_F1	On	0.00	239.7	0	Details
AB7	TowerA_infeedB_Outlet7	On	0.00	239.7	0	Details
AB8	TowerA_infeedB_Outlet8	On	0.00	239.7	0	Details
AB9	TowerA_infeedB_Outlet9	On	0.00	239.3	0	Details
AC1	TowerA_infeedC_Outlet1	On	0.00	239.3	0	Details
AC2	Customer_A_Server_A_F2	On	0.44	239.3	89	Details
AC3	TowerA_infeedC_Outlet3	On	0.00	239.3	0	Details
AC4	TowerA_infeedC_Outlet4	On	0.00	239.4	0	Details
AC5	TowerA_infeedC_Outlet5	On	0.00	239.4	0	Details
AC6	TowerA_infeedC_Outlet6	On	0.43	239.4	87	Details
AC7	Customer_B_Server_A_F2	On	0.00	239.4	0	Details
AC8	TowerA_infeedC_Outlet8	On	0.00	237.9	0	Details
BA1	TowerB_infeedA_Outlet1	On	0.00	237.9	0	Details
BA2	TowerB_infeedA_Outlet2	On	0.00	237.9	0	Details
BA3	TowerB_infeedA_Outlet3	On	0.00	237.9	0	Details
BA4	TowerB_infeedA_Outlet4	On	0.00	237.9	0	Details

## Outlet Control Power Monitoring

- > Individual Outlet Control
- > Current Load Monitoring
- > Power Monitoring
- > Additional Details

## Per PDU Power Information

- > Current Load
- > Infeed Voltage (VAC)
- > Input Feed Watts (W)
- > System Total Watts (W)
- > System Footprint (SqFt / SqM)
- > System Watts (W/SqFt / W/SqM)



ID	Outlet Name	Outlet Status	Outlet Load (A)	Outlet Power (W)	Control State
AA1	TowerA_infeedA_Outlet1	On	0.00	0	On
AA2	TowerA_infeedA_Outlet2	On	0.00	0	On
AA3	Customer_A_Server_A_F1	On	0.00	0	On
AA4	TowerA_infeedA_Outlet4	On	0.00	0	On
AA5	TowerA_infeedA_Outlet5	On	0.00	0	On
AA6	Customer_B_Server_A_F1	On	0.00	0	On
AA7	TowerA_infeedA_Outlet7	On	0.00	0	On
AA8	TowerA_infeedA_Outlet8	On	0.00	0	On
AB1	TowerA_infeedB_Outlet1	On	0.00	0	On



Outlet ID	Outlet Name	Outlet Status	Control State	Load Status	UPS	System	Environmental Monitoring
AA1	TowerA_infeedA_Outlet1	On	On	Normal	On	On	On
Capacity (Amps):	20						
Load (Amps):	0.00						
Voltage (Volts):	238.3						
Apparent Power (VA):	0						
Active Power (Watts):	0						
Power Factor:	N/A						
Energy (Watt-Hours):	0						

## Grouped Outlets Power Information\*

- > Cabinet (single IP address using master/exp config for 2-PDUs)\*
- > Device (Multiple Outlets)\*
- > Group of Devices (Application)\*
- > Individual PDU

## Sentry POPS (Per Outlet Power Sensing)

- > Current Load (A)
- > Voltage (V)
- > Power (W)
- > Apparent Power (VA)
- > Crest Factor
- > Power Factor

\*Requires Sentry Power Manager (SPM)

# Build Your Own PDU & HDOT®

Online PDU Configuration Tool & High Density Outlet Technology



## High Density Outlet Technology

Increase Rack Space in High Density Rack Environments.



Recently, 80% of our customers rated our density solutions as a primary purchasing feature. Server Technology met those needs by creating High Density Outlet Technology (HDOT), the

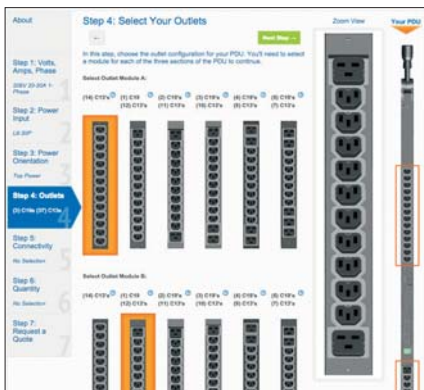
smallest form factor PDU that drastically improves rack space in the data center by fitting (42) C13's in a 42U high by 1U wide PDU device — that's more than 20% smaller than the typical 5.59cm width of a comparable PDU using standard outlets. It's the best design on the market today for high power load data center environments.

HDOT is also available with Alternating Phase, which powers on a per receptacle basis (rather than a branch basis), providing tangible benefits in the form of simplified cabling, better airflow, better load balancing and greater efficiencies.

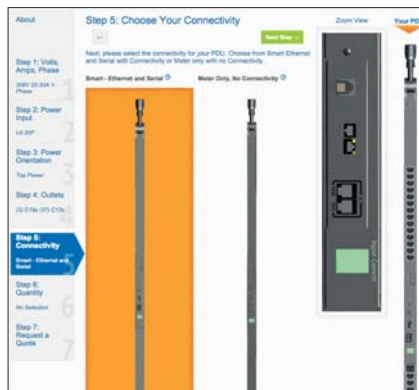


### Key HDOT Benefits:

- > Industry standard C13 and C19 with minimized footprint
- > Maximum outlet density in a 42U Intelligent PDU
- > High native cord retention, reducing the need for additional locking devices
- > Color-coded alternating-phase outputs for easy cabling (select models)
- > Operation to 65C ambient (select models)
- > Thousands of variations available using the configuration tool (with more to come)



Outlet Modules



Connectivity & Intelligence



Quantity, Color & Type

## Build Your Own PDU with the Online Configuration Tool

Easy-To-Use Web Tool for Building Custom PDUs to Meet Your Specific Requirements.

Server Technology's Build Your own PDU online configuration tool takes a Smart or Metered 42-outlet High Density Outlet Technology (HDOT) PDU chassis and allows you to build an HDOT PDU your way in seven simple steps. The HDOT outlet is unique only to Server Technology as we have removed the excess material surrounding the C13 & C19 outlets. **This patent pending technology allows for the most outlets per form factor in the industry.** Additionally, HDOT PDUs are rated for operation at 60C or higher, especially for your high density power needs.

Building Your Own PDU is easy. The simple, seven-step process is user friendly and guides you graphically through selecting voltage, amperage, phase, plug type, input cord orientation, connectivity and colors. With thousands of configurations possible, you are sure to find the right density solution the first time with Build Your Own PDU and HDOT.

To create a custom PDU visit [www.servertech.com/byopdu](http://www.servertech.com/byopdu). Once your submission is complete, you will receive a follow-up to your request for quote within 24-hours or less.







## PRO2 PDU **PRO2**

### The Next Evolution in PDU Design.

The latest innovation from Server Technology, the PRO2 platform, continues STI's more than 30 year tradition of customer driven power solutions development. The PRO2 line of cabinet power distribution units (PDUs) is built to satisfy the most demanding customer needs and applications. PRO2 is designed so that customers can standardize on a platform which meets their needs today, yet ensures flexibility in the future.

PRO2 is a flexible hardware platform which features more outlets, a faster processor, improved firmware and security, more redundancy, more customization and additional resiliency built into the product. The new PRO2 architecture is ideal in any situation where reliability and uptime are important, particularly in high temperature and high security applications. With PRO2, customers can maintain uptime with access to current data and future trends:

- > Maintain high availability to your data
- > Stay informed of rising loads
- > Be proactive on your power supply management
- > Plan your future success

PRO2 brings a new Per-Outlet-Power-Sensing (POPS) form factor that is 20% smaller than prior Switched products, with a 25% increase in outlet density that allows the PRO2 to be utilized in a wider range of cabinets and configurations. The new PRO2 network interface card is hot swappable in the field without changing the state of the outlets. In the unlikely event that the network card fails, it can easily be replaced under power without any additional configuration required.

PRO2 is also introducing a new power topology, called Star Linking, that supports linking of up to 3 Link units per Master PDU, allowing for 1 IP address for 2 cabinets. This provides significant cost savings to the customer as the link units do not require a network card. If one of the link units experiences a failure, the user will not lose communication with the other linked units. Another key feature of the PRO2 architecture is that, should the Master unit lose power, redundant power is provided to the network interface of the Master unit via the first link unit, ensuring uptime of the cabinet and that communication is not lost to the Master PDU.



### Key PRO2 Benefits

- > Hot-swappable, redundantly-powered network card — from link PDU (shown above)
- > Branch current measurements and multi-level alerts
- > Shallower enclosure when compared to previous generation PDU
- > More alarms and configuration options compared to previous generation PDU
- > Star architecture multi-linking (shown below)

### Key Intelligent PDU Benefits

- > PIPS® and/or POPS® high-accuracy measurements of current, voltage, power, and other key power metrics
- > Environmental measurements via plug-and-play probes (including link PDU)
- > Use SPM (Sentry Power Manager) for data center monitoring
- > SNMP traps and email alerts



# Sentry Power Manager (SPM)

## Capacity Planning Solved



### What is Sentry Power Manager?

SPM is the most comprehensive and affordable rack-level solution to measure, monitor and trend power and environmental information in your data center.

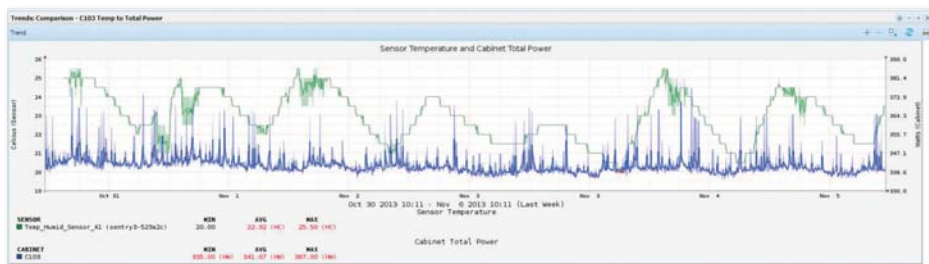


Get all the power, environmental monitoring and reporting you need to plan your data center capacity and uptime. SPM provides the features you need at a lower investment than the competition, allows you to receive data moments after installation, and manage your entire PDU network from anywhere. SPM features a user friendly, single pane of glass dashboard view of your data center or enterprise, and is a flexible, standalone power monitoring system or middleware for DCIM or BMS integration which simplifies the management of your PDUs. In a recent survey of STI customers, the top reasons for picking SPM are its easy integration with current infrastructure, accurate reporting, capacity planning tools, and ease of use.



### Network Operations Center (NOC) – Capacity Planning Made Easy

- > A single point to access all of your PDUs
- > Live-updating trends for all your critical data
- > Central location for alarms
- > Identify available power



### Trends & Comparisons – Track Critical Power & Environmental Data

- > Benchmark energy usage for efficiency improvements
- > Understand growth with predictive trending
- > Send information to key personnel on a schedule

### 6 Reasons Why Every Data Center Manager Should Be Using Sentry Power Manager 6.0

#### 1. Award-Winning Data Center Mgt Solution

- > Provides one central location to manage, monitor & control intelligent PDUs center.
- > Cost-effective software solution.
- > Complete visibility to both power & environmental monitoring.
- > Easy installation and setup.

#### 2. Easy Configuration

- > SNAP feature allows SPM users to create templates then automatically push down key system, IP & security settings to the PDU.
- > Auto firmware updates

#### 3. Versatile Reporting

- > NOC views allow the user to “at a glance” understand overall system status.
- > Schedule, view, export & email System reports, including information on billing, carbon footprint, cabinet redundancy, & total energy.
- > Trending of key power & environmental info

#### 4. Capacity Planning

- > Trending feature that predicts what the power usage might be in the future.
- > Min/Max/Average values along with predictive trends showing two ascension rates based on different times.

#### 5. Seamless Integration

- > Open API that is well documented allows SPM to share critical power and environmental information with other systems like BMS and DCIM solutions.
- > Services include key information like system, location, cabinet, outlet, PDU, phase, branch & sensor information.

#### 6. Get Ahead with SPM

- > Get better control of your datacenter.
- > Optimize your datacenter power.

\*Please refer to your product manual for browser version compatibility.



# Startup Stick™

Quick & Easy CDU Configuration



## Server Technology Startup Stick™

Increases the speed of Server Technology PDU deployment.

The StartUp Stick, by Server Technology, provides a unique means to more easily create individual PDU configurations, including IP addresses, on a computer workstation and be able to mass deploy these configurations to each PDU in mere seconds. You get a spreadsheet-based tool with built-in rules verification, a standard USB interface for PC/MAC, simple LED pass/fail indicator, & on-board logging.



### Benefits of using StartUp Stick for your next CDU deployment:

- > **No DHCP, no problem:** One StartUp Stick to get thousands of PDUs on your network
- > **No scripting:** Set the configuration of as many as 79 parameters at the comfort of your desk
- > **No need to lug your laptop or crash-cart around the data center:** Configure in rack or at powered bench
- > **ROI in a matter of hours:** 5-second typical configuration load time per unit with LED confirmation
- > Leverage expansion PDUs for even further reduction in configuration time
- > Speed up integration of SPM using scheduled discovery and SNAP to start monitoring right away
- > We will send you a file with the serial numbers of your PDU order to start your configuration
- > Get your StartUp Stick with your next order! Ask for KIT-SUS-01
- > **Requirements:** PC/MAC running Microsoft Excel 2007 with VBA or higher & CDU or PRO2 units running v7.0s or v8.0c firmware minimum

# Basic PDU

## Zero-U Vertical Enclosures



Model	CB-12H2	CB-24V2
Outlets	(12) C13	(24) C13
Input Voltage	220-240V	220-240V
Max Amps	16A	16A
Typical Power	3.6kW	3.6kW
Output Voltage	220-240V	220-240V
Circuit Protection	—	—
Height	10U   432mm	18U   800mm



# Basic PDU

Zero-U Vertical Enclosures



STV-1001  
(24) C13 + (6) C19  
220-240V  
16A or 32A  
3.6kW or 7.3kW  
220-240V  
Circuit Breakers  
35U | 1520mm





# Metered PDU

## Zero-U Vertical Enclosures



Model	C-12VE	STV-2001	CxxCS-E (configurable)	CxxCS-4 (configurable)	C2xxCE-4 (configurable)
Outlets	(12) C13	(24) C13 + (6) C19	Up to (42) C13 or (15) C19	Up to (42) C13 or (15) C19	Up to (42) C13 or (12) C19
Input Voltage	220-240V	220-240V	220-240V	3-Phase 230/400V	3-Phase 230/400V
Max Amps	16A or 32A	16A or 32A	16A or 32A	16A or 32A	16A or 32A
Typical Power	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW	11kW or 22kW	11kW or 22kW
Output Voltage	220-240V	220-240V	220-240V	230V	230V
Circuit Protection	Fuses	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	18U   794mm	35U   1520mm	40U   1753mm	41U   1781mm	41U   1778mm



# Metered PDU

## Horizontal Rack Mounted Enclosures



Model	C-4HE	C-12HE
Outlets	(4) C19	(12) IEC C13
Input Voltage	220-240V	220-240V
Max Amps	16A or 32A	16A or 32A
Typical Power	3.6kW or 7.3kW	3.6kW or 7.3kW
Output Voltage	220-240V	220-240V
Circuit Protection	Fuses	Fuses
Height & Depth	1U   178mm Depth	1U   178mm Depth



Model	C-12HDE
Outlets	(12) C19
Input Voltage	220-240V
Max Amps	16A or 32A
Typical Power	7.3kW or 14.7kW
Output Voltage	220-240V
Circuit Protection	Circuit Breakers
Height & Depth	2U   254mm Depth



# Smart PDU

## Zero-U Vertical Enclosures

Model	CS-24V4-A9	CS-24V4-A1	STV-3101	STV-3104
Outlets	(12) C13 + (12) C19	(18) C13 + (6) C19	(24) C13 + (6) C19	(24) C13 + (6) C19
Input Voltage	3-Phase 230/400V	3-Phase 230/400V	220-240V	3-Phase 230/400V
Max Amps	16A or 32A	16A or 32A	32A	16A or 32A
Typical Power	11kW or 22kW	11kW or 22kW	7.3kW	11kW or 22kW
Output Voltage	230V	230V	220-240V	230V
Circuit Protection	Circuit Breakers	Fuses	Circuit Breakers	Circuit Breakers
Height	40U   1753mm	40U   1753mm	35U   1520mm	41U   1781mm



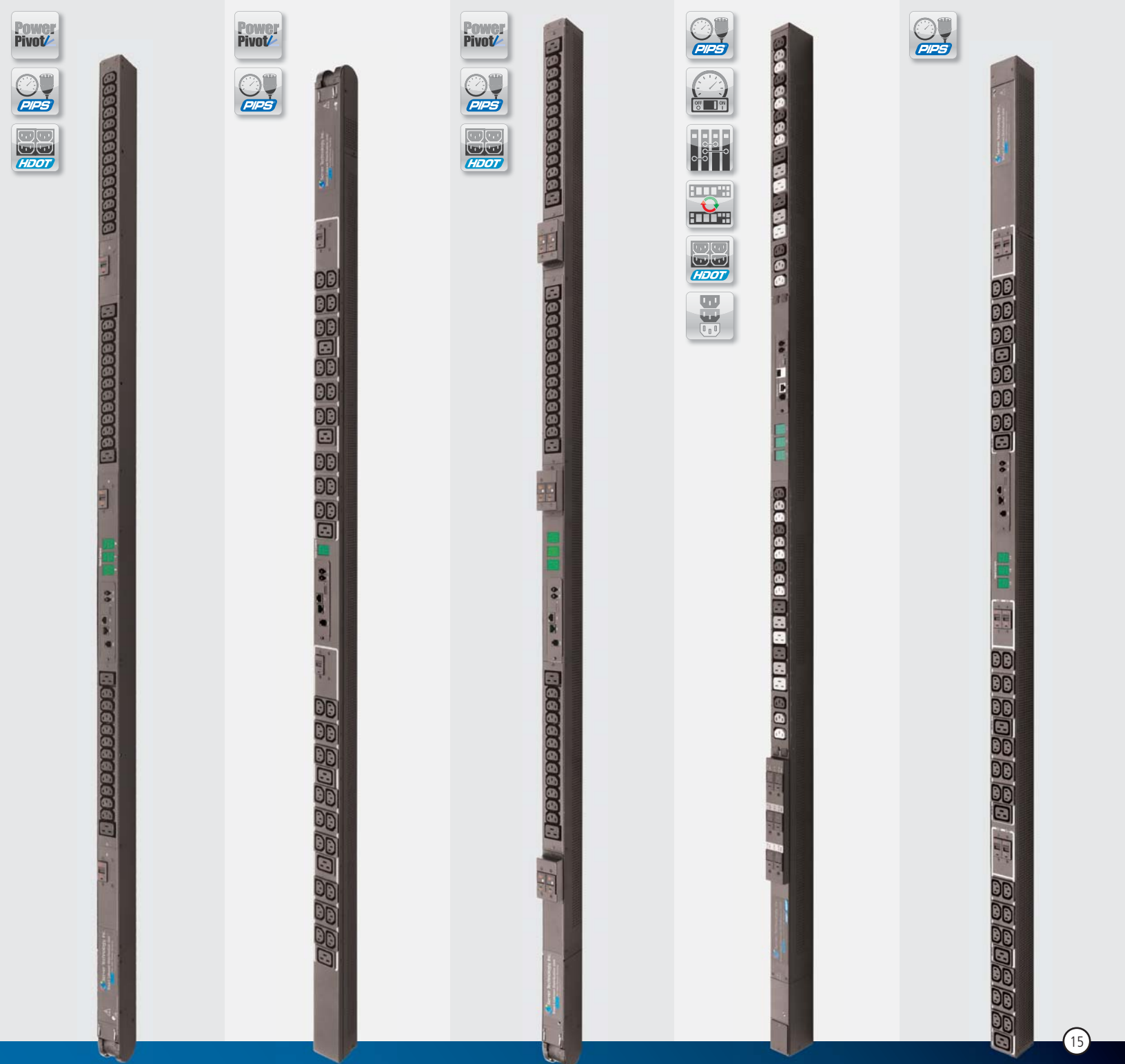


# Smart PDU

## Zero-U Vertical Enclosures



CSxxCS-E (configurable)	STV-3206K	CSxxCS-4 (configurable)	C2SxxCE-4 (configurable)	STV-3203K
Up to (42) C13 or (15) C19	(36) C13 + (6) C19	Up to (42) C13 or (15) C19	Up to (42) C13 or (12) C19	(36) C13 + (6) C19
220-240V	220-240V	3-Phase 230/400V	3-Phase 230/400V	3-Phase 230/400V
16A or 32A	32A	16A or 32A	16A or 32A	32A
3.6kW or 7.3kW	7.3kW	11kW or 22kW	11kW or 22kW	22kW
220-240V	220-240V	230V	230V	230V
Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers
40U   1753mm	40U   1753mm	41U   1781mm	41U   1778mm	40U   1753mm



# Smart PDU

## Horizontal Rack Mounted Enclosures



Model	CS-10HE (Configurable)	CS-12HDE
Outlets	Up to (10) C13 or (2) C19	(12) C19
Input Voltage	220-240V	220-240V
Max Amps	16A or 32A	16A or 32A
Typical Power	3.6kW or 7.3kW	7.3kW or 14.7kW
Output Voltage	220-240V	220-240V
Circuit Protection	Circuit Breakers	Circuit Breakers
Height & Depth	1U   178mm Depth	2U   254mm Depth



Model	CS-xxHE (Configurable)
Outlets	Up to (26) C13 or (6) C19
Input Voltage	220-240V
Max Amps	16A or 32A
Typical Power	3.6kW or 7.3kW
Output Voltage	220-240V
Circuit Protection	Circuit Breakers
Height & Depth	2U   178mm Depth

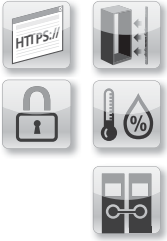


# Smart PDU

## Smart Power Monitor



Model	CS-2HDEA 16A Smart Power Monitor	CS-HDEK 32A Smart Power Monitor
Outlets	C19	IEC 60309
Input Voltage	220-240V	220-240V
Max Amps	16A	32A
Typical Power	7.3kW	14.7kW
Output Voltage	220-240V	220-240V
Circuit Protection	—	—
Height & Depth	1U   178mm Depth	1U   178mm Depth



Model	CS-2HD4 400V Smart Power Monitor
Outlets	IEC 60309
Input Voltage	3-Phase 230/400V
Max Amps	16A or 32A
Typical Power	22kW or 44kW
Output Voltage	3-Phase 230/400V
Circuit Protection	—
Height & Depth	1U   178mm Depth





# Switched PDU

## Zero-U Vertical Enclosures

Model	CW-16VE	CW-24VE-A1	STV-4101	STV-4102	CW-24V4
Outlets	(16) C13	(18) C13 + (6) C19	(18) C13 + (6) C19	(24) C13	(24) C13
Input Voltage	220-240V	220-240V	220-240V	220-240V	3-Phase 230/400V
Max Amps	16A or 32A	16A or 32A	16A or 32A	16A or 32A	16A or 32A
Typical Power	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW	3.6kW or 7.3kW	11kW or 22kW
Output Voltage	220-240V	220-240V	220-240V	220-240V	230V
Circuit Protection	Fuses	Fuses	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	29U   1257mm	40U   1753mm	40U   1753mm	40U   1753mm	40U   1753mm



# Switched PDU

## Zero-U Vertical Enclosures



STV-4501	STV-4503	C2WxxCE-4 (configurable)	STV-4301	CW-48V4	STV-4303
(24) C13 + (6) C19	(24) C13 + (6) C19	Up to (42) C13 or (12) C19	(48) C13	(36) C13 + (12) C19	(48) C13
220-240V	3-Phase 230/400V	3-Phase 230/400V	220-240V	3-Phase 230/400V	3-Phase 230/400V
16A or 32A	16A or 32A	16A or 32A	16A or 32A	16A or 32A	16A or 32A
3.6kW or 7.3kW	11kW or 22kW	11kW or 22kW	3.6kW or 7.3kW	11kW or 22kW	11kW or 22kW
220-240V	230V	230V	220-240V	230V	230V
Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers	Circuit Breakers
40U   1753mm	41U   1778mm	41U   1778mm	40U   1753mm	40U   1753mm	40U   1753mm



# Switched PDU

## Horizontal Rack Mounted Enclosures

Model  
Outlets  
Input Voltage  
Max Amps  
Typical Power  
Output Voltage  
Circuit Protection  
Height & Depth

CW-2H2\*

(2) C13

220-240V

16A

3.6kW

220-240V

—

1U | 140mm Depth



CW-8HE

(8) C13

220-240V

16A or 32A

3.6kW or 7.3kW

220-240V

Circuit Breakers

1U | 178mm Depth



\*Not Linkable

Model  
Outlets  
Input Voltage  
Max Amps  
Typical Power  
Output Voltage  
Circuit Protection  
Height & Depth

CW-16HE

(16) C13

220-240V

16A or 32A

3.6kW or 7.3kW

220-240V

Circuit Breakers

2U | 178mm Depth



CW-16HDE

(16) C13

220-240V

16A or 32A

7.3kW or 14.7kW

220-240V

Circuit Breakers

2U | 254mm Depth



# POPS® Smart PDU

## Horizontal Rack Mounted Enclosures

Model	CSG-24VE	CSG-24V4	STV-5304
Outlets	(18) C13 + (6) C19	(12) C13 + (12) C19	(36) C13 + (12) C19
Input Voltage	220-240V	3-Phase 230/400V	3-Phase 230/400V
Max Amps	16A or 32A	16A or 32A	16A or 32A
Typical Power	3.6kW or 7.3kW	11kW or 22kW	11kW or 22kW
Output Voltage	220-240V	230V	230V
Circuit Protection	Circuit Breakers	Circuit Breakers	Circuit Breakers
Height	35U   1550mm	41U   1794mm	40U   1753mm

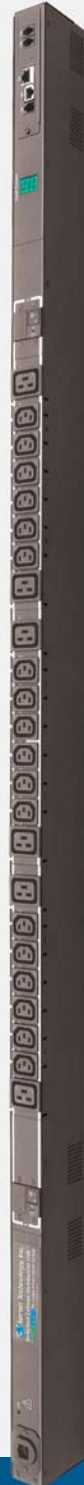




# POPS® Switched PDU

## Zero-U Vertical Enclosures

Model	CWG-16VE	CWG-24VE-C1	CWG-24V4-A1
Outlets	(12) C13 + (4) C19	(18) C13 + (6) C19	(18) C13 + (6) C19
Input Voltage	220-240V	220-240V	3-Phase 230/400V
Max Amps	16A or 32A	16A or 32A	16A or 32A
Typical Power	3.6kW or 7.3kW	3.6kW or 7.3kW	112kW or 22kW
Output Voltage	220-240V	220-240V	230V
Circuit Protection	Fuses	Circuit Breakers	Circuit Breakers
Height	29U   1256mm	40U   1753mm	40U   1753mm



# POPS® Switched PDU

Zero-U Vertical Enclosures



STV-6501  
 (24) C13 + (6) C19  
 220-240V  
 16A or 32A  
 3.6kW or 7.3kW  
 220-240V  
 Circuit Breakers  
 40U | 1753mm

STV-6503  
 (24) C13 + (6) C19  
 3-Phase 230/400V  
 16A or 32A  
 11kW or 22kW  
 230V  
 Circuit Breakers  
 41U | 1778mm

STV-6304  
 (36) C13 + (12) C19  
 3-Phase 230/400V  
 16A or 32A  
 11kW or 22kW  
 230V  
 Circuit Breakers  
 40U | 1753mm



# POPS® Switched PDU

Horizontal Rack Mounted Enclosures



Model	CWG-8HE
Outlets	(8) C13
Input Voltage	220-240V
Max Amps	16A or 32A
Typical Power	3.6kW or 7.3kW
Output Voltage	220-240V
Circuit Protection	Circuit Breakers
Height & Depth	2U   178mm Depth



Model	CWG-16HE
Outlets	(16) C13
Input Voltage	220-240V
Max Amps	16A or 32A
Typical Power	3.6kW or 7.3kW
Output Voltage	220-240V
Circuit Protection	Circuit Breakers
Height & Depth	2U   178mm Depth



# Fail-Safe Transfer Switch (FSTS)

## Horizontal Rack Mounted Enclosures



Model  
Outlets  
Input Voltage  
Max Amps  
Typical Power  
Output Voltage  
Circuit Protection  
Height & Depth

PTTS-H008  
(8) C13  
100-120V or 220-240V  
16A  
1.9kW or 3.6kW  
100-120V or 220-240V  
Internal Fuses  
1U | 203mm Depth

C-8HFE  
(8) C19  
220-240V  
16A or 32A  
3.6kW or 7.3kW  
220-240V  
Internal Fuses  
2U | 254mm Depth



Model  
Outlets  
Input Voltage  
Max Amps  
Typical Power  
Output Voltage  
Circuit Protection  
Height & Depth

C-16HFE  
(16) C13  
220-240V  
16A or 32A  
3.6kW or 7.3kW  
220-240V  
Internal Fuses  
2U | 254mm Depth

CW-16HFE  
(16) C13  
220-240V  
16A or 32A  
3.6kW or 7.3kW  
220-240V  
Circuit Breakers  
2U | 254mm Depth



Model  
Outlets  
Input Voltage  
Max Amps  
Typical Power  
Output Voltage  
Circuit Protection  
Height & Depth

CS-2HFEA  
C19  
220-240V  
16A  
3.6kW  
220-240V  
—  
1U | 178mm Depth

CS-2HFEK  
C19  
220-240V  
32A  
7.3kW  
220-240V  
—  
1U | 178mm Depth



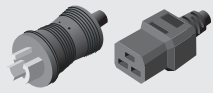
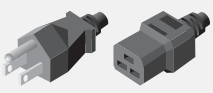
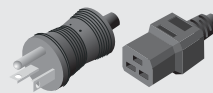





# PDU Power Cords

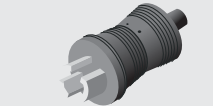
## Plug & Connector Power Cord Options for PDUs

Server Technology provides 20A, 30A, 50A, & 60A 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.<sup>1 2</sup>




### 20A Plugs & Cords

Model	PTCORD-L1	PTCORD-L5	PTCORD-L6	PTCORD-L7	Hard-Wired	Hard-Wired
Outlets	L6-20P to C19	5-15P to C19	5-20P to C19	L5-20P to C19	NEMA L15-20P	NEMA L21-20P
Voltage	208-240V	100-120V	100-120V	100-120V	3-Phase 208V, Delta	3-Phase 208V, Wye
Amps	20A	15A	20A	20A	20A	20A
Length	3m	3m	3m	3m	3m	3m
						




### 30A Plugs & Cords

Model	Hard-Wired	Hard-Wired	Hard-Wired	Hard-Wired	Hard-Wired
Outlets	NEMA L5-30P	NEMA L6-30P	NEMA L15-30P	NEMA L21-30P	NEMA L22-30P
Voltage	100-120V	208-240V	3-Phase 208V, Delta	3-Phase 208V, Wye	277/480V, Wye
Amps	30A	30A	30A	30A	30A
Length	3m	3m	3m	3m	3m
					

### 50A & 60A Plugs & Cords

Model	Hard-Wired	Hard-Wired	Hard-Wired
Outlets	CS8365C	IEC 60309 (4pin, 9hr)	IEC 60309 (5pin, 9hr)
Voltage	3-Phase 208-240V, Delta	3-Phase 208-240V, Delta	3-Phase 208V, Wye
Amps	50A	60A	60A
Length	Varies Based on Model	Varies Based on Model	Varies Based on Model
			

### Accessory Options

Model	EMTH-1-1	EMCU-1-1B	KIT-0016
Type	Temp & Humidity Probes	Environmental Monitoring Control Unit	C20 Inlet Retention Bracket
Function	Measures cabinet temperature & humidity	Supports 2 additional EMTH-1-1, water & 4 dry contact closure door sensors	Securely fastens C19 cord to chassis
Length	3m	—	—
			

<sup>1</sup>Server Technology offers a wide range of products for North America and global markets. For more information on global products visit our website at [www.servertech.com](http://www.servertech.com)

<sup>2</sup>Custom cable lengths available; contact a Server Technology Power Expert to determine the correct solution.

# PDU Power Cords

## Plug & Connector Power Cord Options for PDUs



Plug	Connector	Type	Length	Voltage	Amps	Part#	Description
BS 1363		Standard	10'   3m	250V	13A	PTCORD-L4	BS 1363 (UK) to Locking IEC 60320 C19; Fused, EU Approved
CEE 7/7		Standard	10'   3m	250V	16A	PTCORD-L2	CEE 7/7 Schuko to Locking IEC 60320 C19; EU Approved
60309		Standard	10'   3m	250V	16A	PTCORD-L3	IEC 60309 to Locking IEC 60320 C19; EU Approved
5-15P		Standard	10'   3m	125V	15A	PTCORD-L5	NEMA 5-15P to Locking IEC 60320 C19; UL & CSA Approved
5-20P		Standard	10'   3m	125V	20A	PTCORD-L6	NEMA 5-20P to Locking IEC 60320 C19; UL & CSA Approved
L5-20P		Standard	10'   3m	125V	20A	PTCORD-L7	NEMA L5-20P to Locking IEC 60320 C19; UL & CSA Approved
L6-20P		Standard	10'   3m	250V	20A	PTCORD-L1	NEMA L6-20P to Locking IEC 60320 C19; UL & CSA Approved
C20		Standard	20"   .5m	100-250V	16A	CAB-S2019-CV	Black LockedIn™ IEC 60320 C20 to C19; EU Approved
C14		Standard	1'   .31m	100-125V	10A	CAB-1305	IEC 60320 C14 to NEMA 5-15R; UL & CSA Approved
5-15P		Standard	1.5'   .45m	100-125V	10A	CAB-1301D	NEMA 5-15P to IEC 60320 C13; UL & CSA Approved
5-15P		Standard	3'   .9m	100-125V	10A	CAB-1301C	NEMA 5-15P to IEC 60320 C13; UL & CSA Approved
5-15P		Standard	6'   1.8m	100-125V	10A	CAB-1301A	NEMA 5-15P to IEC 60320 C13; UL & CSA Approved
AS 3112		Special Order	8.2'   2.5m	250V	15A	CAB-1342	Australia/New Zealand AS3112 to IEC 60320 C19; SAA Approved
BS 546		Special Order	8.2'   2.5m	250V	16A	CAB-1345	Old British Std. (India/S. Africa) BS 546 to IEC 60320 C13; SABS Approved
CEI 23-16		Special Order	8.2'   2.5m	250V	16A	CAB-1361	Italy CEI 23-16 to IEC 60320 C19
GB 2099		Special Order	10'   3m	250V	16A	CAB-1362A	China GB2099 to IEC 60320 C19
GB 2099		Special Order	8.2'   2.5m	250V	16A	CAB-1362B	China GB2099 to IEC 60320 C19
IRAM 2073		Special Order	8.2'   2.5m	250V	10A	CAB-1364	Argentina IRAM 2073 to IEC 60320 C19; IRAM Approved
JIS 8303		Special Order	8'   2.4m	125V	15A	CAB-1365	Japan JIS 8303 to IEC 60320 C19; PSE Approved
SEV 1011		Special Order	8.2'   2.5m	250V	16A	CAB-1366	Switzerland SEV1011 to IEC 60320 C19
SI32		Special Order	8.2'   2.5m	250V	16A	CAB-1363	Israel SI32 to IEC 60320 C19
6-20P		Special Order	8'   2.4m	250V	20A	CAB-1354	NEMA 6-20P to IEC 60320 C19
5-15P		Special Order	8'   2.4m	125V	15A	CAB-1313	NEMA 5-15P to IEC 60320 C19; UL & CSA Approved
Blunt Cut		Special Order	20'   6.1m	—	—	CAB-1339	IEC 60320 C19 molded to 3-wire bare, 20'; UL & CSA Approved (Call before ordering. Custom length cord using a mechanically attached plug/body)

YOUR POWER STRATEGY EXPERTS



**Server Technology**  
Quality Rack Power Solutions

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