

# C1W24VT-45PA15AC (Primary)

C1X24VT-45PA15AC (Link)

The Server Technology® PRO1 Switched PDU provides control of outlet power and local LED input current monitoring, allowing IT personnel to determine safe levels of loading on a per-phase basis while installing equipment into the rack/cabinet. The integral PIPS® technology provides billing-grade accurate measurement of current, voltage, active power, apparent power, power factor, crest factor, and accumulated energy at the input. These power data points, along with temperature and humidity measurements (provided via optional probes), are accessible through the built-in Web and CLI interfaces as well as through SNMP. The PRO1 Switched “Primary” PDU can be connected to as many as three (with optional module) PRO1 Switched “Link” PDUs to extend the network access to the redundant or secondary power feed without the risks of a daisy chain linking configuration.

## Key Features



### Network Monitoring

Gain access to valuable data through connections including HTTP(S), SSH, Telnet, SNMP, (S)FTP, SMTP, Syslog, LDAP(S), RS-232 serial, and more.



### Star Multi-Linking

PRO2 provides the ability to link up to four power circuits using one IP address. Primary Expansion PDU provides backup power to network card.



### Auto-Flip Current Display

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



### Branch Circuit Protection

This PDU meets the UL and IEC 62368-1 requirement for branch circuit protection through UL 489 rated magnetic-hydraulic circuit breakers or UL 248 fuses.



### High Retention Locking Outlets

PRO2 receptacles have high retention and are compatible with P-Lock type power cords.



### Flexible Mounting

Includes standard button mounts along with provisions for custom mounting brackets.



### Hot-Swap Network Card

Network access is ensured when power is lost to the Primary unit with backup power provided by the Linked unit.



### Temperature/Humidity Monitoring

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



### Per-Inlet Power Sensing

PIPS® (Per Inlet Power Sensing) Monitors Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, & Energy per inlet.



### Outlet Control

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



### High Temperature Rating

This product has been tested and approved for safe and reliable operation in 60 °C data center environments.



### Color-Coded Options

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

## Inputs

Input Voltage (V):	400
Frequency	50/60 Hz
Input Plug:	230/400V 56 Series 56P532
Input Current (A):	32
Input Current Rated (A):	32
Input Power Capacity (kW):	22.0

## Outputs

Connector	Rating
(24) x IEC 60320/C13	Global Rating: ≤ 10A @230V L-N

Outlet #1 opposite the power input

## Branch Circuit Protection

UL 489, CSA C22.2 No. 5 & IEC/EN 60947-2 Compliant 1-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 5 kAIC Interrupt Rating

## Physical

Dimensions: 69.0in tall x 1.75in wide x 3.5in deep [1753mm x 45mm x 89mm]

## Environmental

**Operating Environment:** 32°F to 140°F / 0°C to 60°C | 8%RH to 90%RH non-condensing | 6,500ft/2km elevation

**Storage Environment:** -40°F to 185°F / -40°C to 85°C | 8%RH to 90%RH non-condensing | 50,000ft/15km elevation

**Quiescent / Unloaded Power Draw:** < 10W for all configurations

## Communications & Security

10/100/1000 Mbps Ethernet (RJ-45 connector), RS-232 serial (RJ-45 connector)

Two (2) temperature/humidity sensor inputs (4P4C), Link port (RJ-12) - {also on Link PDU}

Web-browser GUI and command-line interface (CLI): HTTP/HTTPS, TLSv1.2, SSHv2, Telnet, SNMPv2c and v3 (GET, SET, Traps), IPv4 and IPv6, LDAPv3/LDAPS, TACACS+, RADIUS, FTP/SFTP

# Certifications

## Global:

### Safety

- EN IEC 62368-1 (TUV certified, T-mark)
- IEC 62368-1 incl. regional, national and harmonized differences (IECEE CB scheme) EMC

### EMC

- EN 55032 / CISPR 32
- EN 55035 / CISPR 35
- EN 61000-3-2 / IEC 61000-3-2
- EN 61000-3-3 / IEC 61000-3-3

### CE Mark

- 2011/65/EU (RoHS Directive)
- 2014/35/EU (Low Voltage Directive)
- 2014/30/EU (EMC Directive)

### UKCA Mark

- RoHS
- Electrical Equipment (Safety)
- Electromagnetic Compatibility

# Measurement Accuracy

## Input Measurement Accuracy:

- LED Current =  $\pm 10\%$  at 0.1 amp (0.3 - 9.9 amps) and 1 amp (> 9.9 amps) resolution
- GUI Current =  $\pm 1\%$  at 0.01 amp resolution (above 0.25 amp)
- Voltage =  $\pm 1\%$  at 0.1 volt resolution (nominal  $\pm 10\%$ )
- Active Power =  $\pm 1\%$  at 1 watt resolution
- Apparent Power =  $\pm 1\%$  at 1 volt-amp resolution
- Power Factor =  $\pm 3\%$  at 0.01 resolution
- Crest Factor =  $\pm 10\%$  at 0.1 resolution
- Energy =  $\pm 1\%$  at 0.1 kilowatt-hour resolution

# Optional Accessories

EMTH-2-10 Combination Temperature/Humidity Probe, 10ft (3m)

EMCU-1-1C Environmental Monitor adding:

- Two (2) EMTH-2-10 temperature/humidity ports (one probe included)
- One (1) EMWS-1-1 water sensor port (probe sold separately)
- Four (4) dry contact (NO/NC) monitoring points
- One (1) 8-bit analog-to-digital converter (0 to 5VDC)

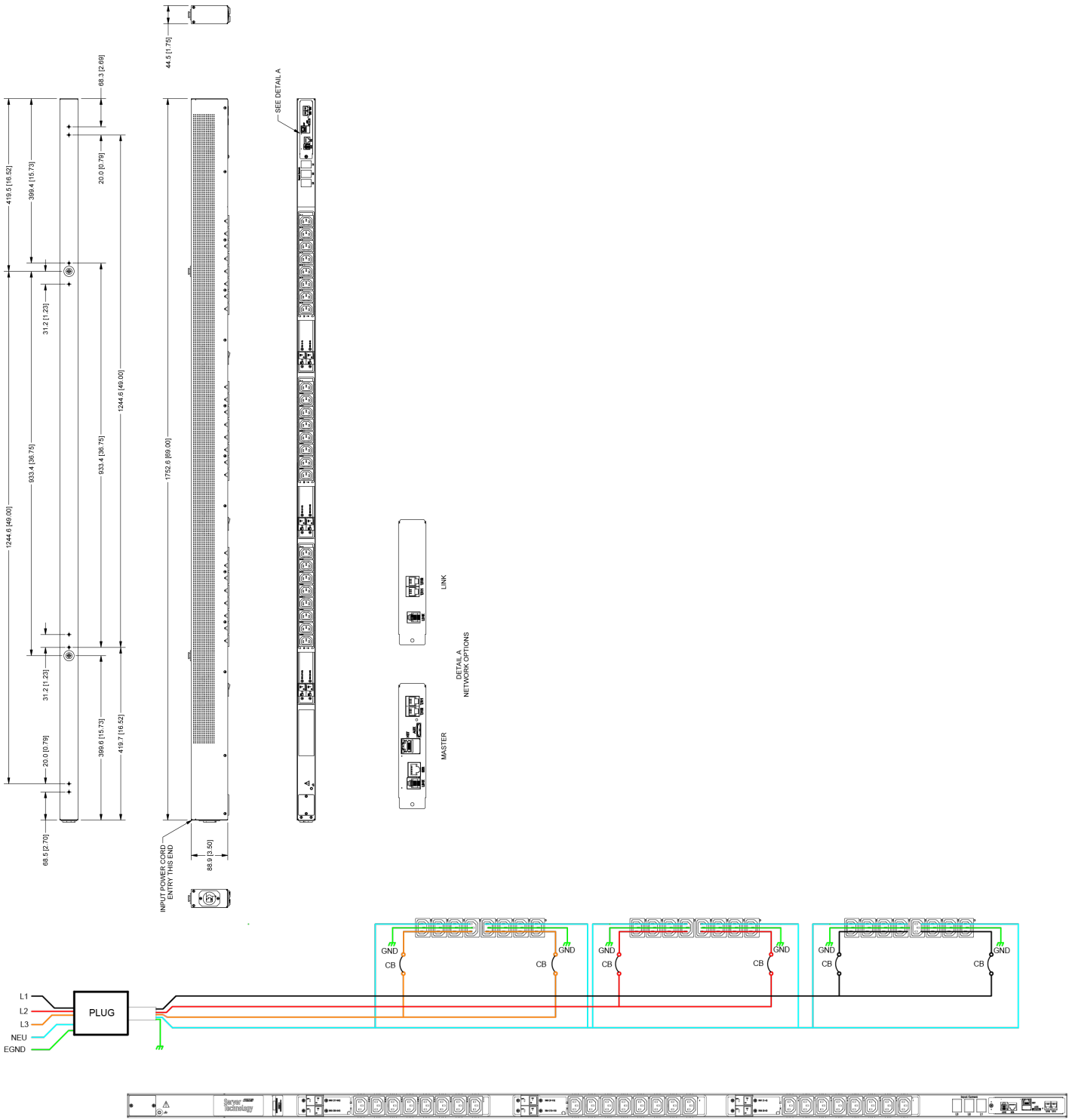
KIT-SUS-01 StartUp Stick™ for rapid configuration Mounting Brackets

- Buttons (KIT-0020) included for tool-less mounting (see diagram)
- See the Mounting Bracket Guide for further suggestions
- Custom mounting options available. Contact your local Server Technology representative

Cable Retention Devices for non-locking cords

- EZip
- Cable Sleeve

# Drawings



Part Number	Expansion	Certification	Input	Output	Output	Branch Circuit Rating	
		Rating Standard	Rating	Input Type	Total Output Rating	Outlet Type and Ratings	
C1W24VT-4NPA17AC	C1X24VT-4NPA17AC	TUVGS	230/400V 3P+NPE, 50/60Hz, 16A	IEC 60309 16A	230V, 50/60Hz	IEC 60320: 12xC13 ≤ 10A each	6 branches, each ≤ 16A
C1W24VT-4PPA17AC	C1X24VT-4PPA17AC	TUVGS	230/400V 3P+NPE, 50/60Hz, 32A	IEC 60309 32A	230V, 50/60Hz	IEC 60320: 12xC13 ≤ 10A each	6 branches, each ≤ 16A
C1W24VT-5BPA17AC	C1X24VT-5BPA17AC	UL/CUL	240/415V 3P+NPE, 50/60Hz, 20A	NEMA L22-20P	240V, 50/60Hz	IEC 60320: 12xC13 ≤ 10A each	6 branches, each ≤ 16A
C1W24VT-5NPA17AC	C1X24VT-5NPA17AC	UL/CUL	240/415V 3P+NPE, 50/60Hz, 20A	IEC 60309 20A	240V, 50/60Hz	IEC 60320: 12xC13 ≤ 10A each	6 branches, each ≤ 16A
C1W24VT-5PPA17AC	C1X24VT-5PPA17AC	UL/CUL	240/415V 3P+NPE, 50/60Hz, 30A	IEC 60309 30A	240V, 50/60Hz	IEC 60320: 12xC13 ≤ 10A each	6 branches, each ≤ 16A
C1W24VT-5CPA17AC	C1X24VT-5CPA17AC	UL/CUL	240/415V 3P+NPE, 50/60Hz, 30A	NEMA L22-30P	240V, 50/60Hz	IEC 60320: 12xC13 ≤ 10A each	6 branches, each ≤ 16A

## Additional Information

**Warranty:** Server Technology offers a standard 2-year limited parts & labor warranty. Extended support is available at the time of purchase. See the Support Options on the website, or contact your local Server Technology representative for more information.

**Patents:** Information on Server Technology patents is available on the website at: [www.servertech.com/products/patents](http://www.servertech.com/products/patents)

"Global" models are typically for use in countries outside of North America. Contact your Server Technology representative for more information about which models are appropriate for your application.

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