

## CW-16H1B454 (Master)

### CX-16H1B454 (Link)

The Server Technology® 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 accurate measurement of current (billing-grade), 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 Switched "Master" PDU can be connected to a Switched "Link" PDU to extend the network access to the redundant or secondary power feed.

## 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.



### 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. "Switched"



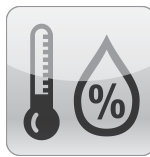
### Branch Circuit Protection

This PDU meets the UL and IEC 60950-1 requirement for branch circuit protection through use of UL489 rated magnetic-hydraulic circuit breakers or UL248 fuses.



### High Retention Locking Outlets

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



### Temperature/Humidity Monitoring

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



### Per-Inlet Power Sensing

Meets ANSI C12.1 for billing-grade accuracy of Current per phase. PIPS includes voltage, active power, apparent power, power factor, and energy.



### Outlet Control

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



### Color Identification

Choose from six colors to designate circuits for rack PDUs in the data center. Color options include Blue, Red, Green, White, Yellow, and Black.

## Inputs

Input Voltage (V):	120
Input Plug:	NEMA L5-30P
Input Current (A):	30
Input Current Rated (A):	24
Input Power Capacity (kW):	2.8

## Outputs

Connector	Rating
(16) x NEMA 5-20R	North American Rating: $\leq 16A @ 120V L-N$ (20A Peak)

## Branch Circuit Protection

UL489 Compliant 1-pole, 20A trip circuit breakers, two (2) branch, rating:  $\leq 16A$ , 5 kAIC Interrupt Rating

## Physical

Dimensions: 3.5in tall x 17.2in wide x 7.1in deep [89mm x 437mm x 181mm]

## Environmental

**Operating Environment:** 32°F to 122°F / 0°C to 50°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 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

### North American:

cTUVus Mark to UL 60950-1:2007 R10.14

CAN/CSA-C22.2 No. 60950-1-07+A1:2011+A2:2014

FCC Part 15 Subpart B Sections 15.107 and 15.109, Class A

## 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)

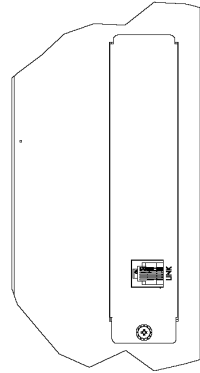
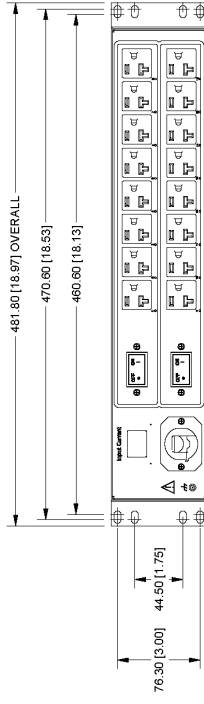
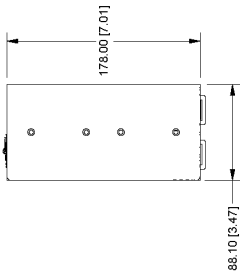
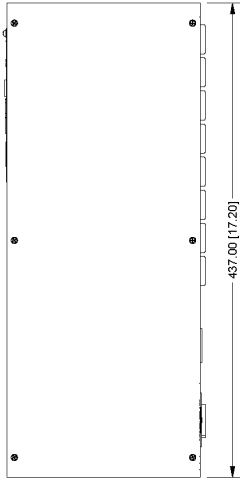
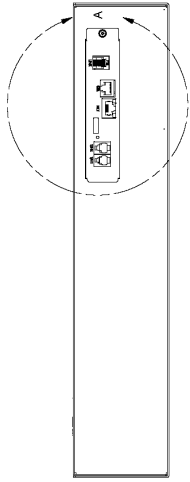
KIT-SUS-01 StartUp Stick™ for rapid configuration Mounting Brackets

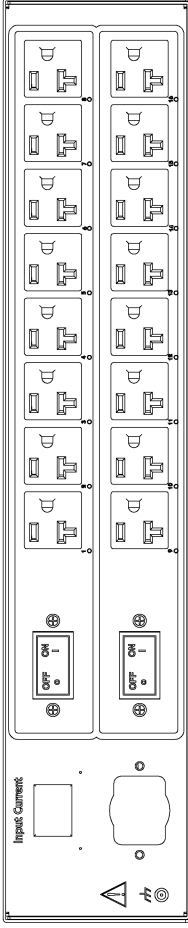
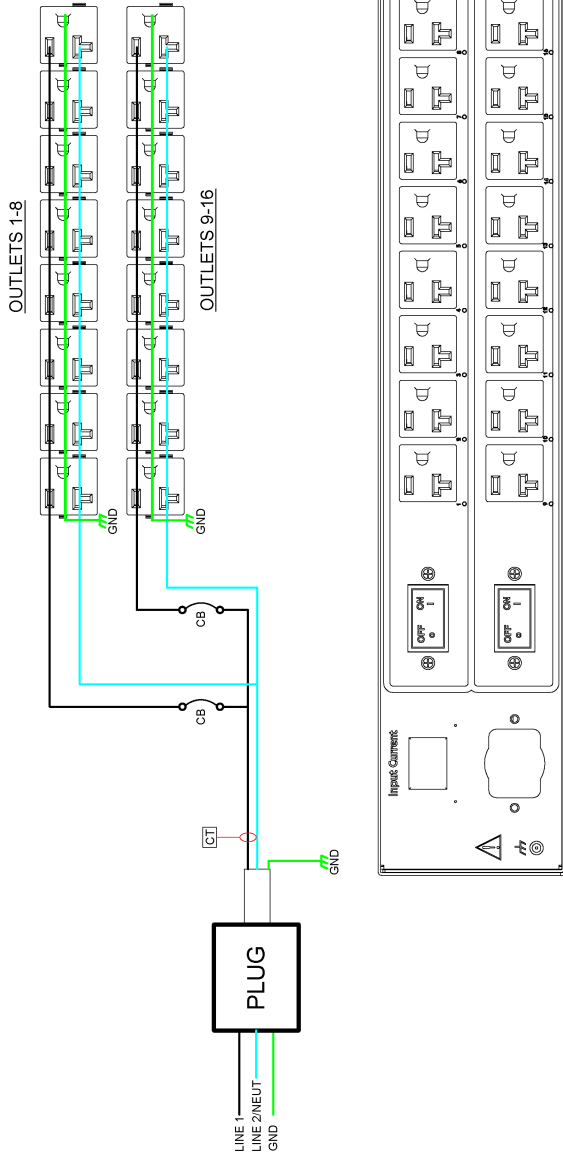
- mounting brackets included
- See the Mounting Bracket Guide for further suggestions
- Custom mounting options available. Contact your local Server Technology representative

Cable Retention Devices for non-locking cords

- EZip
- Cable Sleeve

# Drawings





## 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)

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<sup>3</sup> "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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