

CWG48VN-4PFN58AC (Master)

CXG48VN-4PFN58AC (Link)

The Server Technology® Switched POPS 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® and POPS® technology provides accurate measurement of current (billing-grade), voltage, active power, apparent power, power factor, crest factor, and accumulated energy at the input and at each output. 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 POPS “Master” PDU can be connected to a Switched POPS “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 POPS”



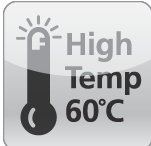
Per-Outlet Power Sensing

Meets ANSI C12.1 for billing-grade accuracy of Current per phase. POPS 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.



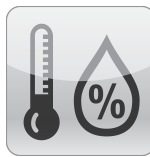
High Temperature Rating

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



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.



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.



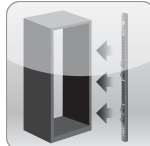
Branch Circuit Protection

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.



Flexible Mounting

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

Inputs

Input Voltage (V):	400
Input Plug:	230/400V Wye 32A IEC 60309 3P+N+PE 6Hr
Input Current (A):	32
Input Current Rated (A):	32
Input Power Capacity (kW):	22.0

Outputs

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

Branch Circuit Protection

(6) 20A Fuses, six (6) branch with tool-less retraction, meets UL 60950-1 requirements (Bussmann SC-20 fuses), 100 kA Interrupt Rating

Physical

Dimensions: 69.0in tall x 3.25in wide x 3.5in deep [1753mm x 83mm 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 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:

TUV T-Mark to EN 60950-1:2006+A11+A1+A12+A2

EMC to EN55024 (2010) and EN55032 (2012)

CE Compliant

RoHS, European Hazardous Materials Directive (Recast) 2011/65/EU

WEEE Compliant

Measurement Accuracy

Input Measurement Accuracy:

LED Current = ± 10% at 0.1 amp (0.3 - 9.9 amps) and 1 amp (> 9.9 amps) resolution

GUI Current = ± 1% at 0.01 amp resolution (above 0.25 amp)

Voltage = ± 1% at 0.1 volt resolution (nominal ± 10%)

Active Power = ± 1% at 1 watt resolution

Apparent Power = ± 1% at 1 volt-amp resolution

Power Factor = ± 3% at 0.01 resolution

Crest Factor = ± 10% at 0.1 resolution

Energy = $\pm 1\%$ at 0.1 kilowatt-hour resolution

Output Measurement Accuracy

GUI Current = $\pm 1\%$ at 0.01 amp resolution (above 0.15 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 1 watt-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)

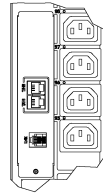
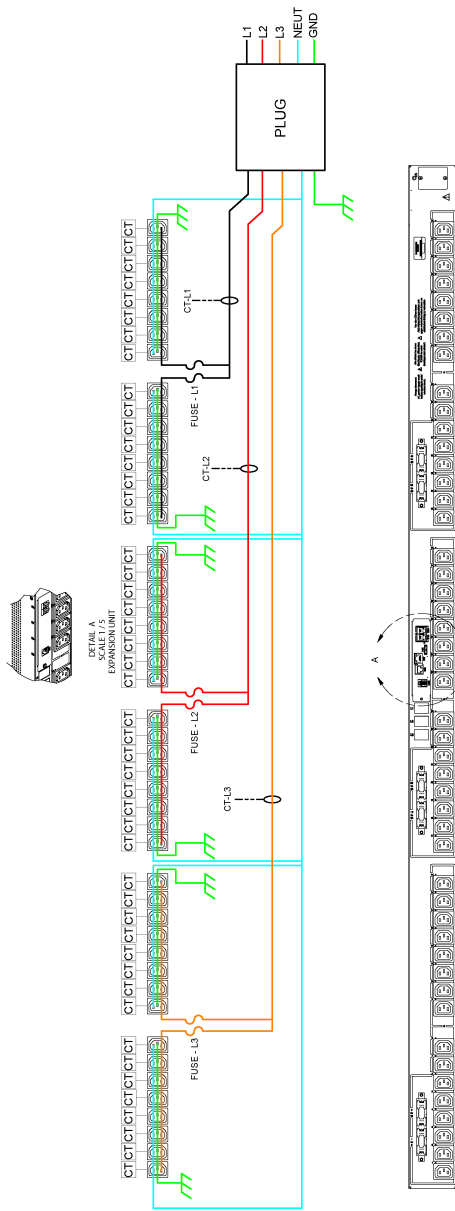
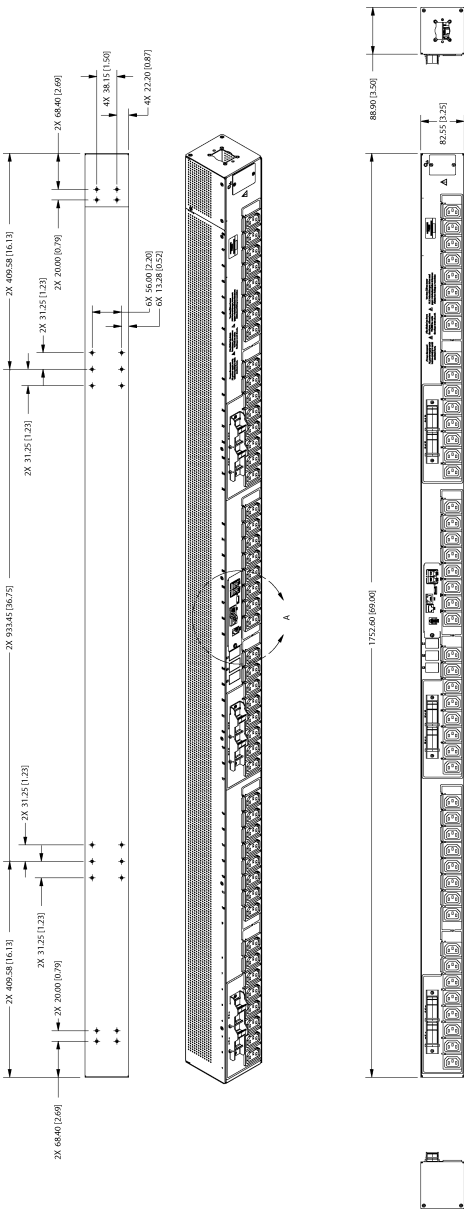
KIT-SUS-01 StartUp Stick™ for rapid configuration

- 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



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

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