

## CWG48VN-5CFN58AC (Master)

### CXG48VN-5CFN58AC (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”



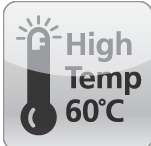
### Per-Outlet Power Sensing

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.



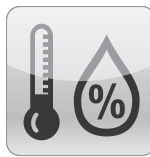
### High Temperature Rating

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.



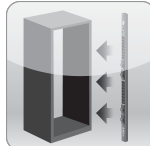
### Branch Circuit Protection

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):	415
Input Plug:	NEMA L22-30P
Input Current (A):	30
Input Current Rated (A):	24
Input Power Capacity (kW):	17.3

## Outputs

Connector	Rating
(48) x IEC 60320/C13	North American Rating: $\leq 12A @ 240V L-N$ (15A Peak)

## 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

### 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

## **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



## 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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### North America Headquarters

1040 Sandhill Road  
Reno, Nevada 89521  
1-775-284-2000 Tel  
1-800-835-1515 Toll Free  
1-775-284-2065 Fax  
sales@servertech.com  
www.servertech.com  
www.servertechblog.com

### U.K. Western Europe, Israel & Africa

Fountain Court  
2 Victoria Square  
Victoria Street  
St. Albans  
AL1 3TF  
United Kingdom  
+44 (0) 1727 884676 Tel  
+44 (0) 1727 220815 Fax  
salesint@servertech.com

### Germany Central Europe, Eastern Europe & Russia

10th + 11th Floor  
Westhafen Tower  
Westhafenplatz 1  
60327 Frankfurt  
Germany  
+49 697 1045 6205 Tel  
+49 697 1045 6450 Fax  
salesint@servertech.com

### Hong Kong APAC

Level 43, AIA Tower  
183 Electric Road, North  
Point, Hong Kong  
+852 3975 1828 Tel  
+852 3975 1800 Fax  
salesint@servertech.com

### India & Middle-East

Level 9 Raheja Towers,  
26-27 Mahatma Gandhi Road  
Bangalore, Karnataka, 560 001,  
India  
+91 80 40927227 Tel  
salesint@servertech.com

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