Server Technology
Quality Rack Power Solutions

CWG-24VEK415C1 (Master)

CXG-24VEK415C1 (Expansion)

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.
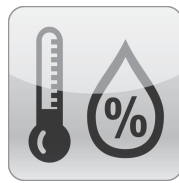
Key Features

Network Monitoring	Linkable Expansion	Temperature/ Humidity Monitoring
Auto-Flip Current Display	Per-Inlet Power Sensing	Per-Outlet Power Sensing
Branch Circuit Protection	Outlet Control	High Retention Locking Outlets
Flexible Mounting	Color Identification	Cisco EnergyWise[1] Compliant

Inputs

Input Voltage: 230

Input Plug: IEC 230V/32A 2P+PE 6Hr

Input Current: 32

Input Current Rated: 32

Outputs

Connector: (18) x IEC 60320/C13

Global Rating (C13): ≤ 10A @230V L-N

Connector: (6) x IEC 60320/C19

Global Rating (C19): ≤ 16A @230V L-N

Locking outlets provide high-retention even for non-locking cords.

Branch Circuit Protection

UL489 compliant 2-pole, 20A trip circuit breakers, two (2) branches, rating: ≤ 16A @220-240V

Physical

Dimensions: 64.0 (1626.0 mm) tall x 1.75 (45.0 mm) wide x 3.5 (89.0 mm) deep

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, 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
EMC to EN 55022 Class A, EN 55024, CISPR 22 Class A
CE Mark
RoHS/WEEE

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 = ± 1% at 0.1 kilowatt-hour resolution

Output Measurement Accuracy
GUI Current = ± 1% at 0.01 amp resolution (above 0.15 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 = ± 1% at 1 watt-hour resolution

Optional Accessories

EMTH-1-1 Combination Temperature/Humidity Probe, 10ft (3m)
EMCU-1-1B Environmental Monitor adding:
- Two (2) EMTH-1-1 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-STEYE-01 or -10 provides access to key metrics through Bluetooth
SPM (Sentry® Power Manager):
- Monitor and manage multiple PDUs from a single point
- Monitor and manage alarm conditions
- Create reports and trends on stored data
- Analyze power usage per phase
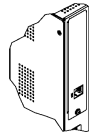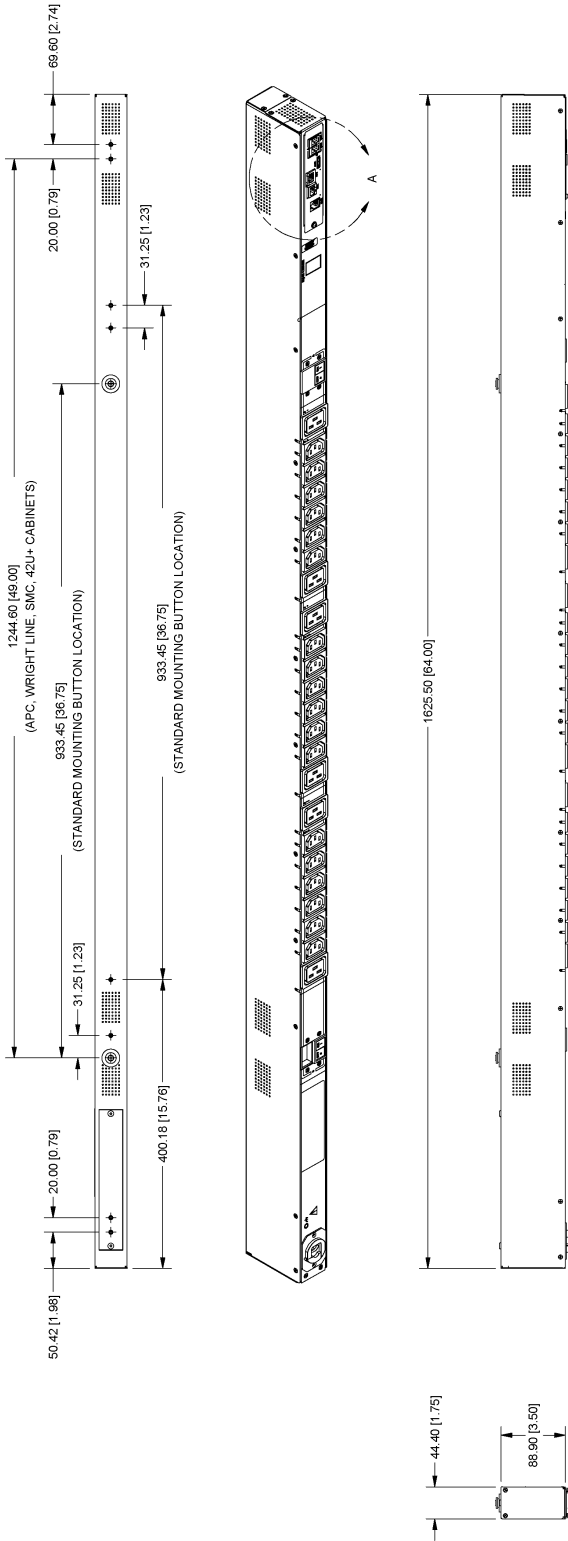- Optional appliance or virtual version
- Vmware Ready2
Mounting Brackets
- Buttons (KIT-0020) included for tool-less mounting (see diagram)

- 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

Mechanical Drawing

69.60 [2.74]

20.00 [0.79]

31.25 [1.23]

1244.60 [49.00]
(APC, WRIGHT LINE, SMC, 42U+ CABINETS)

933.45 [36.75]
(STANDARD MOUNTING BUTTON LOCATION)

933.45 [36.75]
(STANDARD MOUNTING BUTTON LOCATION)

1625.50 [64.00]

31.25 [1.23]

400.18 [15.76]

20.00 [0.79]

50.42 [1.98]

44.40 [1.75]

88.90 [3.50]

A

DETAIL A
SCALE 1 / 5
CXG-24Vxxxx-xxx (EXPANSION)

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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[1] Cisco EnergyWise is a U.S. registered trademark of Cisco Technology, Inc.

[2] VMware and VMware Ready is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions.

[3] "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.

Interested in learning more about how Server Technology can help you manage and distribute power in your datacenter? Visit us online at: **www.servertech.com/products/**

North America Headquarters	**Int'l West Headquarters**	**Int'l Central Headquarters**	**Int'l East Headquarters**	**Int'l Mid-East Headquarters**
1040 Sandhill Road	Fountain Court	10th + 11th Floor	Level 43, AIA Tower	RMZ Infinity 1st floor Tower D
Reno, Nevada 89521	2 Victoria Square	Westhafen Tower	183 Electric Road, North	Municipal No. 3
1-775-284-2000 Tel	Victoria Street	Westhafenplatz 1	Point, Hong Kong	Old Madras Road
1-800-835-1515 Toll Free	St. Albans	60327 Frankfurt	+852 3975 1828 Tel	Benniganahalli Village
1-775-284-2065 Fax	AL1 3TF	Germany	+852 3975 1800 Fax	Krishnarajpuram Hobli
sales@servertech.com	United Kingdom	+49 697 1045 6205 Tel	salesint@servertech.com	Bangalore, 560016
www.servertech.com	+44 (0) 1727 884676 Tel	+49 697 1045 6450 Fax		India
www.servertechblog.com	+44 (0) 1727 220815 Fax	salesint@servertech.com		+91 99022 44534 Tel
	salesint@servertech.com			salesint@servertech.com

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