Server Technology
Quality Rack Power Solutions

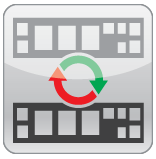
C2WG36CE-4PAE2M66 (Master)

C2XG36CE-4PAE2M66 (Link)

The Server Technology® PRO2 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 billing-grade accurate measurement of current, 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 PRO2 Switched POPS “Master” PDU can be connected to as many as three (with optional module) PRO2 Switched POPS “Link” PDUs to extend the network access to the redundant or secondary power feed without the risks of a daisy chain linking configuration.

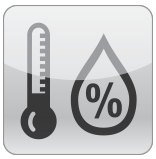
Key Features

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.



Hot-Swap Network Card
Network access is ensured when power is lost to the Master unit with backup power provided by the primary link unit.

Star Multi-Linking
Provides the ability to link up to four power circuits using one IP address. Primary link provides backup power to network card.



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

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-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.

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.

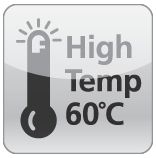
Branch Current Monitoring
PRO2 monitors current at each breaker branch and provides SNMP-based alerts and emails on high usage that risks a tripped circuit.

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.

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

Alternating-Phase Outlets
3-phase power is wired in an alternating fashion per outlet for simplified load balancing, reduced cord lengths, and better airflow.

High Density Outlet Technology
The highest outlet density available in a network connected PDU. Meets IEC C13 and C19 specifications, plus high native retention and UL94V-0 flame rating.



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

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

Outputs

Connector	Rating
(24) x IEC 60320/C13	Global Rating: ≤ 10A @230V L-N
(12) x IEC 60320/C19	Global Rating: ≤ 16A @230V L-N

Branch Circuit Protection

UL498 Compliant 2-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 10 kAIC Interrupt Rating

Physical

Dimensions: 70.0in tall x 2.2in wide x 2.5in deep [1778mm x 56mm x 64mm]

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 = ± 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

Branch Measurement Accuracy
Current = ± 3% at 0.01 amp resolution (above 0.5 amp)

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)

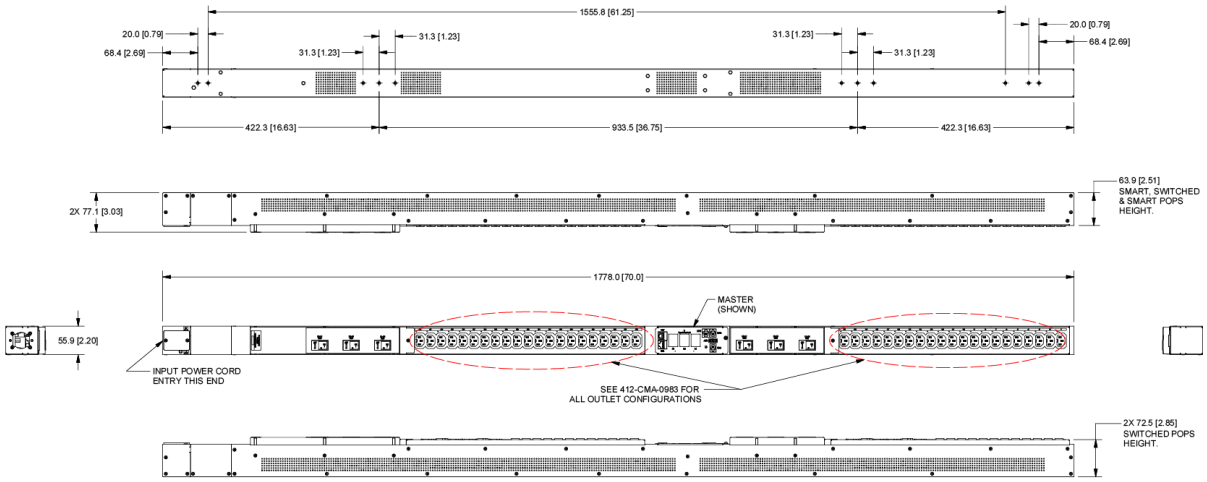
KIT-PRO2LINK-01M or -01D provides ability to link (2) additional PRO2 units
KIT-STEYE-01 or -10 provides access to key metrics through Bluetooth
KIT-SUS-01 StartUp Stick™ for rapid configuration
SPM (Sentry® Power Manager):
- Monitor and manage multiple PDUs from a single point
- Monitor and manage alarm conditions
- Create reports and trends on stored data
- Analyze power usage per phase
- Optional appliance or virtual version
- Vmware Ready²

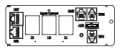
Mounting Brackets
- Buttons (KIT-0020) included for tool-less mounting (see diagram)
- See the Mounting Bracket Guide for further suggestions
- Custom mounting options available. Contact your local Server Technology representative

Cable Retention Devices for non-locking cords
- EZip
- Cable Sleeve

NOTES:

1. DIMENSIONS ARE IN MILLIMETERS AND [ ] BRACKETS ARE IN INCHES.
2. DIMENSIONS ARE NOMINAL. INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.





3 PHASE MASTER
PRO2

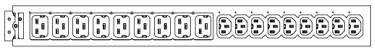
3 PHASE LINK
PRO2

SMART/SWITCHED VERSIONS

(21)C13

(3)C19, (15)C13

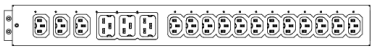
(6)C19, (12)C13



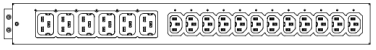
(9)C19, (9)C13

SMART POPS/SWITCHED POPS VERSIONS

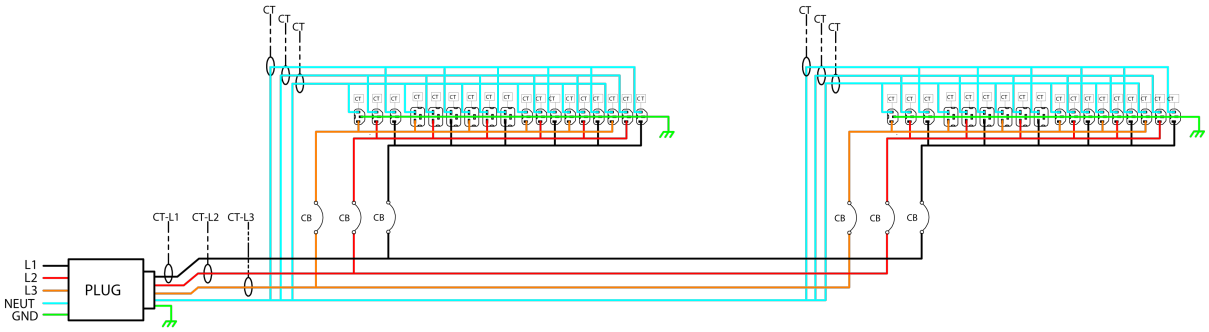
(18)C13



(3)C19, (15)C13



(6)C19, (12)C13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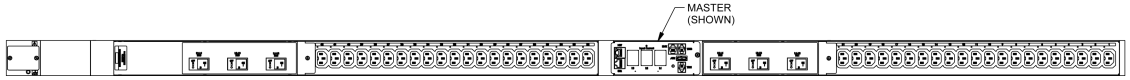
MASTER
(SHOWN)

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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[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.

This datasheet was generated on: 28-Dec-2017

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Visit us online at: **www.servertech.com/products/**

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

Int'l West Headquarters
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

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

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

Int'l Mid-East Headquarters
RMZ Infinity 1st floor Tower D
Municipal No. 3
Old Madras Road
Benniganahalli Village
Krishnarajpuram Hobli
Bangalore, 560016
India
+91 99022 44534 Tel
salesint@servertech.com

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