C2SG48TE-4PAE2M99 (Primary)

C2LG48TE-4PAE2M99 (Link)

The Server Technology® PRO2 Smart POPS PDU provides 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 Smart POPS "Primary" PDU can be connected to as many as three (with optional module) PRO2 Smart 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

HDOT Cx Outlets
Cx is the future-ready UL tested hybrid of a C13 and C19 outlet accommodating both C14 and C20 plugs.

Hot-Swap Network Card
Network access is ensured when power is lost to the Primary unit with backup power provided by the Linked unit.

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

Per-Inlet Power Sensing
PIPS® (Per Inlet Power Sensing) Monitors Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, & Energy per inlet.

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

Alternating-Phase Outlets
Evenly distributes multiple phases of power to each outlet for simplified load balancing, reduced cord lengths, and better airflow.

Flexible Mounting
Includes standard button mounts along with provisions for custom mounting brackets.

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.

Star Multi-Linking
PRO2 provides the ability to link up to four power circuits using one IP address. Primary Expansion PDU provides backup power to network card.

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.

Per-Outlet Power Sensing
POPS® (Per Outlet Power Sensing) Monitors Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor, Power Factor, and Energy per outlet.

Branch Circuit Protection
This PDU meets the UL and IEC 62368-1 requirement for branch circuit protection through UL 489 rated magnetic-hydraulic circuit breakers or UL 248 fuses.

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

Color-Coded Options
Select from six colors to designate PDU circuits in the data center — black, white, red, green, blue, and yellow.

Inputs

Input Voltage (V):	400
Frequency	50/60 Hz
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
(30) x IEC 60320/C13	Global Rating: ⩽ 10A @230V L-N
(18) x Cx	Global Rating: ⩽ 16A @230V L-N

The Cx outlet has superior cable retention. Moderate force is required when plugging in a C14 or C20 connector to fully seat the plug and to ensure proper installation. An incorrectly installed plug will be loose and will not provide a reliable connection.

Outlet #1 opposite the power input

Branch Circuit Protection

UL 489, CSA C22.2 No. 5 & IEC/EN 60947-2 Compliant 2-pole, 20A trip circuit breakers, six (6) branch, rating: ⩽ 16A, 10 kAIC (North America) / (5 kAIC ROW) Interrupt Rating

Physical

Dimensions: 80.0in tall x 2.2in wide x 2.5in deep [2032mm 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: -22°F to 176°F / -30°C to 80°C | 8%RH to 90%RH non-condensing | 50,000ft/15km elevation
Quiescent / Unloaded Power Draw: < 10W for all configurations

Communications & Security

10/100/1000 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:
Safety
  EN IEC 62368-1 (TUVR certified, T-mark)
  IEC 62368-1 incl. regional, national and harmonized differences (IECEE CB scheme) EMC
EMC
  EN 55032 / CISPR 32
  EN 55035 / CISPR 35
  EN 61000-3-2 / IEC 61000-3-2
  EN 61000-3-3 / IEC 61000-3-3

CE Mark
  2011/65/EU (RoHS Directive)
  2014/35/EU (Low Voltage Directive)
  2014/30/EU (EMC Directive)
UKCA Mark
  RoHS
  Electrical Equipment (Safety)
  Electromagnetic Compatibility

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

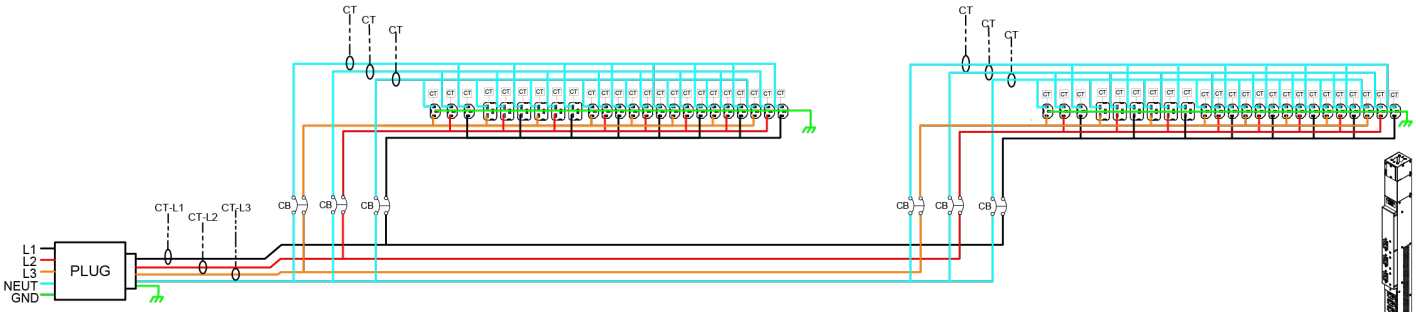
Output Measurement Accuracy
GUI Current = ± 1% at 0.01 amp resolution (above 0.15 amp)
Voltage = ± 1% at 0.1 volt resolution (nominal ± 10%)
Active Power = ± 1% at 1 watt resolution
Apparent Power = ± 1% at 1 volt-amp resolution
Power Factor = ± 3% at 0.01 resolution
Crest Factor = ± 10% at 0.1 resolution
Energy = ± 1% at 1 watt-hour resolution

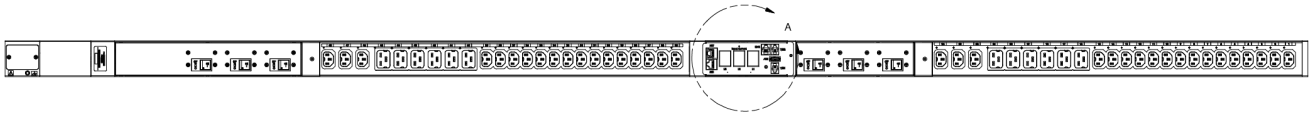
Branch Measurement Accuracy
Current = ± 3% at 0.01 amp resolution (above 0.5 amp)

Optional Accessories

EMTH-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-PRO2LINK-01M or -01D provides ability to link (2) additional PRO2 units
KIT-SUS-01 StartUp Stick™ for rapid configurationMounting 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

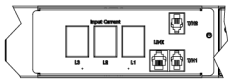
Drawings



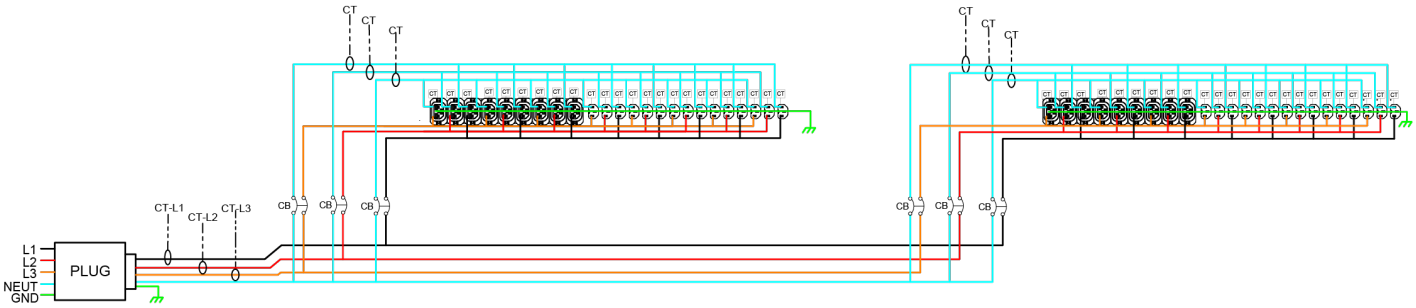


Part Number		Certification	Input		Output		
Master	Expansion	Rating Standard	Rating	Input Type	Total Output Rating	Outlet Type and Ratings	Branch Circuit Rating
C2abbcE-4NAE2dee	C2abbcE-4NAE2dee	TUVGS	230/400V 3P+N+PE, 50/60Hz; 16A	IEC 60309 16A	230V, 50/60Hz; <= 48A	IEC 60320: C19 <= 16A each, C13 <= 10A each	6 branches, each <= 16A
C2abbcE-4PAE2dee	C2abbcE-4PAE2dee	TUVGS	230/400V 3P+N+PE, 50/60Hz; 32A	IEC 60309 32A	230V, 50/60Hz; <= 96A	IEC 60320: C19 <= 16A each, C13 <= 10A each	6 branches, each <= 16A
C2abbcE-5BAE2dee	C2abbcE-5BAE2dee	cTUVus and/or cULus	240/415V 3P+N+PE, 50/60Hz; 16A	NEMA L22-20P	240V, 50/60Hz; <= 48A	IEC 60320: C19 <= 16A each, C13 <= 12A each	6 branches, each <= 16A
C2abbcE-5CAE2dee	C2abbcE-5CAE2dee	cTUVus and/or cULus	240/415V 3P+N+PE, 50/60Hz; 24A	NEMA L22-30P	240V, 50/60Hz; <= 72A	IEC 60320: C19 <= 16A each, C13 <= 12A each	6 branches, each <= 16A
C2abbcE-5NAE2dee	C2abbcE-5NAE2dee	cTUVus and/or cULus	240/415V 3P+N+PE, 50/60Hz; 16A	IEC 60309 20A	240V, 50/60Hz; <= 48A	IEC 60320: C19 <= 16A each, C13 <= 12A each	6 branches, each <= 16A
C2abbcE-5PAE2dee	C2abbcE-5PAE2dee	cTUVus and/or cULus	240/415V 3P+N+PE, 50/60Hz; 24A	IEC 60309 30A	240V, 50/60Hz; <= 72A	IEC 60320: C19 <= 16A each, C13 <= 12A each	6 branches, each <= 16A

Note: "a" designates the product type; "bb" designates total number of outlets; "c" represents the type of outlet; "d" represents orientation; "ee" designates code for number of Cx or C19 outlets in each of the two outlet modules

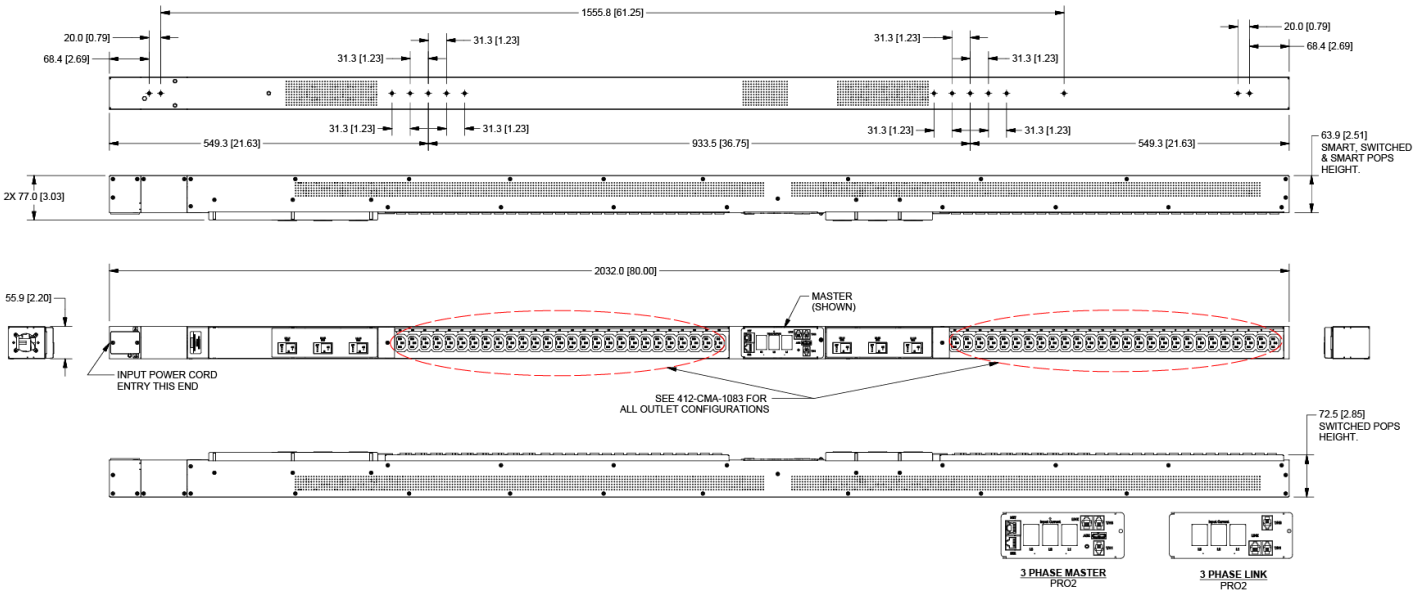


DETAIL A
'C2X' EXPANSION VIEW



NOTES:

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



SMART/SWITCHED VERSIONS

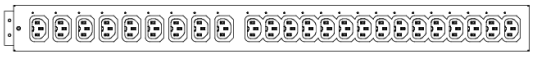
(27)C13

(3)C19, (21)C13

(6)C19, (18)C13

(9)C19, (15)C13

SMART POPS/SWITCHED POPS VERSIONS



(24)C13

(3)C19, (21)C13

(6)C19, (18)C13

(9)C19, (15)C13

NOTES:

1. DIMENSIONS ARE IN MILLIMETERS AND [ ] BRACKETS ARE IN INCHES.
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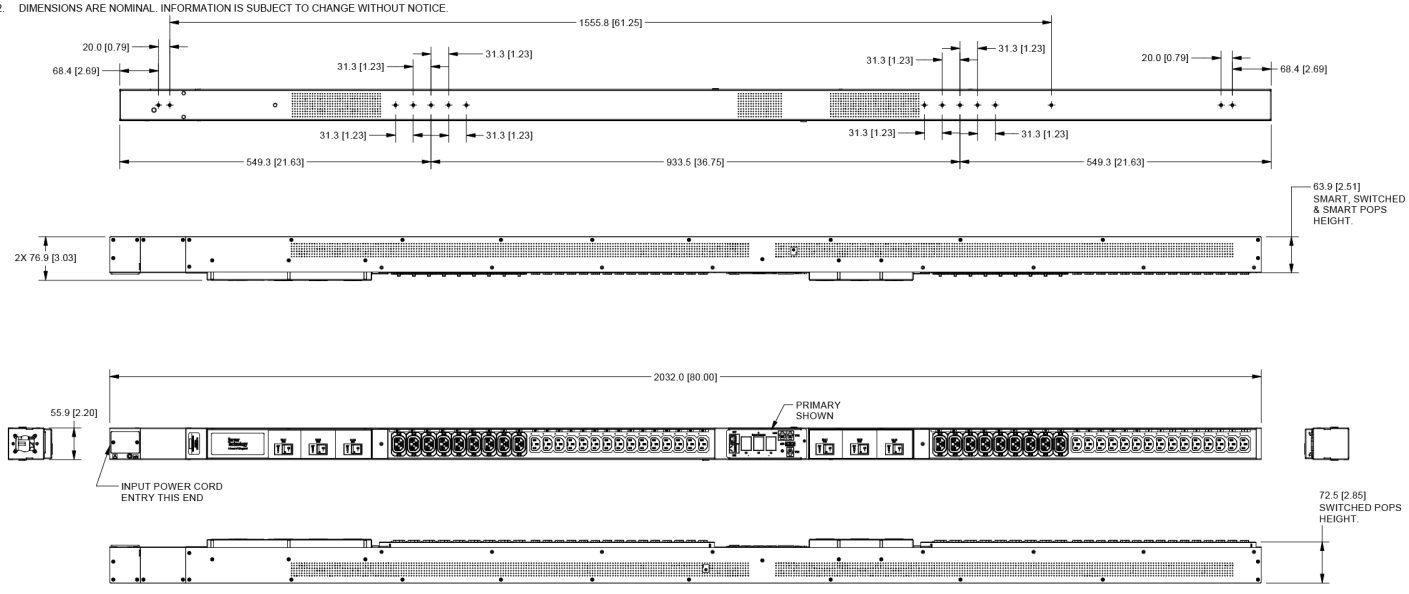

Additional Information

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

“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.

Information in this document is current as of time of publishing. Contact your Server Technology representative for the most up-to-date information. This datasheet was generated on: 4-SEP-2026

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/

To contact an expert in your region, go to www.servertech.com/about-us/office-locations for more information.

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