

# C2SG48TE-DFME2M99 (Primary)

## C2LG48TE-DFME2M99 (Link)

The Server Technology® PR02 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 PR02 Smart POPS “Primary” PDU can be connected to as many as three (with optional module) PR02 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

PR02 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):	208
Frequency	50/60 Hz
Input Plug:	CS8365 3P+G 50A
Input Current (A):	50
Input Current Rated (A):	40
Input Power Capacity (kW):	14.4

## Outputs

Connector	Rating
(30) x IEC 60320/C13	North American Rating: ≤ 12A @208V L-L (15A Peak)
(18) x Cx	North American Rating: ≤ 16A @208V L-L (20A Peak)

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 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:** -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

10/100/1000 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

**North American:**

Safety (Listed & Certified, cTUVus mark)

UL 62368-1

CSA C22.2 No. 62368-1

EMC

FCC Part 15 Subpart B Sections 15.107 & 15.109, Class A

CAN ICES-003, Class A

## Measurement Accuracy

**Input Measurement Accuracy:**

Input Measurement Accuracy

LED Current =  $\pm 10\%$  at 0.1 amp (0.5 - 9.9 amps) and 1 amp ( $> 9.9$  amps) resolution

GUI Current =  $\pm 1\%$  at 0.01 amp resolution (above 0.5 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

**Branch Measurement Accuracy**

Current =  $\pm 3\%$  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 configuration

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

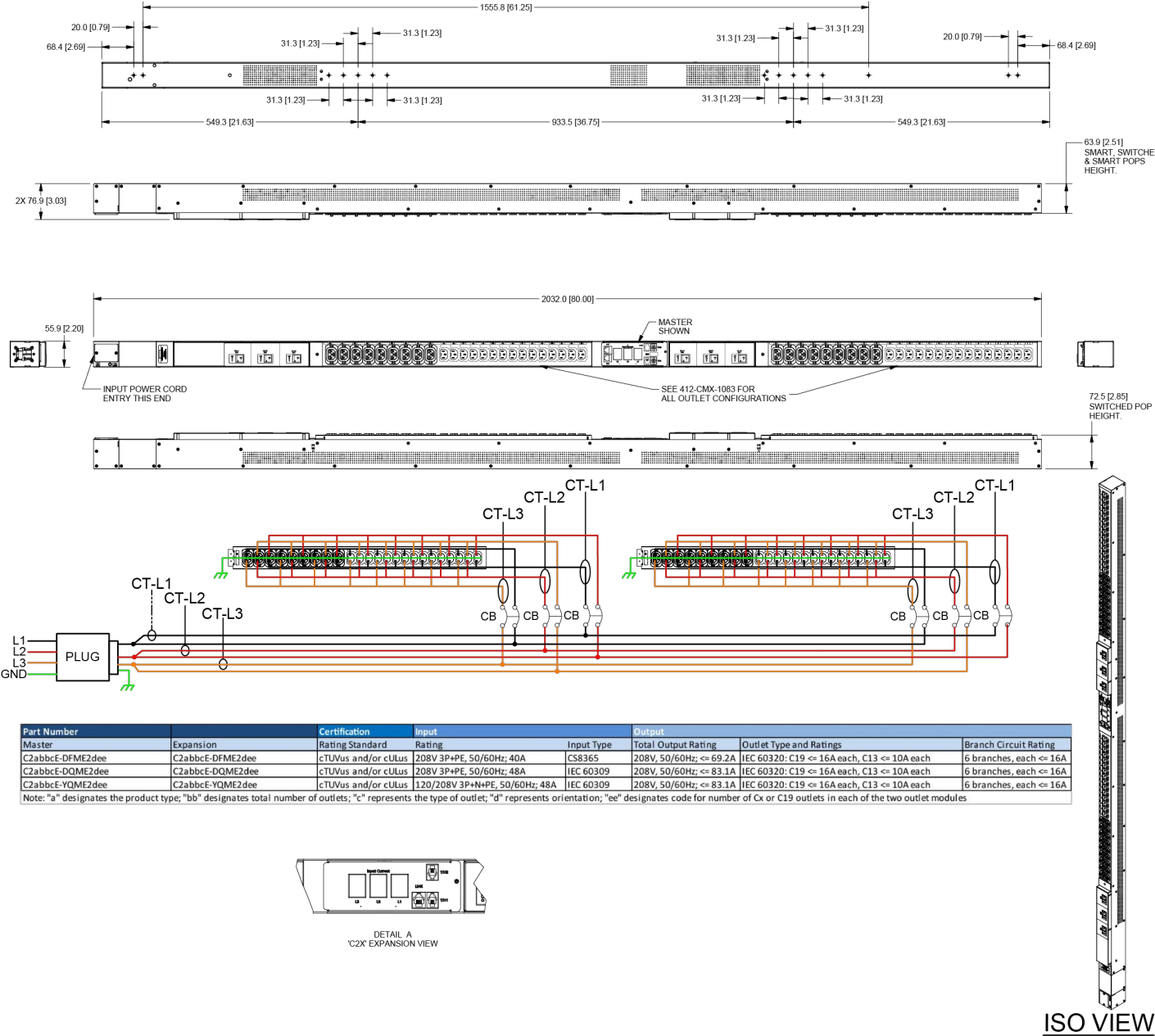
Cable Retention Devices for non-locking cords

- EZip

- Cable Sleeve

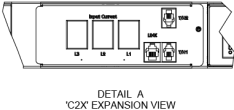
Drawings

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



Part Number	Expansion	Certification	Input	Output
Master		Rating Standard	Rating	Input Type
C2abbcE-DFME2dee	C2abbcE-DFME2dee	cTUVus and/or cULus	208V 3P+PE, 50/60Hz; 40A	CS8365
C2abbcE-DQME2dee	C2abbcE-DQME2dee	cTUVus and/or cULus	208V 3P+PE, 50/60Hz; 48A	IEC 60309
C2abbcE-YQME2dee	C2abbcE-YQME2dee	cTUVus and/or cULus	120/208V 3P+N+PE, 50/60Hz; 48A	IEC 60309

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



## 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)

“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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