Server Technology
Quality Rack Power Solutions

C2S48CE-DFME2M66 (Master)

C2L48CE-DFME2M66 (Link)

The Server Technology® PRO2 Smart 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® technology provides billing-grade accurate measurement of current, voltage, active power, apparent power, power factor, crest factor, and accumulated energy at the input. 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 “Master” PDU can be connected to as many as three (with optional module) PRO2 Smart “Link” PDU 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.



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.



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. "Smart"



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.



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 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.



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.



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 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.



Flexible Mounting
Includes standard button mounts along with provisions for custom mounting brackets (contact Server Technology for details).



Cisco EnergyWise[1] Compliant
Meets the requirements set forth by Cisco Systems, Inc. for its EnergyWise program for monitoring of device energy.

Inputs

Input Voltage (V):	208
Input Plug:	CS8365 3P+G 50A
Input Current (A):	50
Input Current Rated (A):	40
Input Power Capacity (kW):	14.4

Outputs

Connector	Rating
(36) x IEC 60320/C13	North American Rating: ≤ 12A @208V L-L (15A Peak)
(12) x IEC 60320/C19	North American Rating: ≤ 16A @208V L-L (20A Peak)

Branch Circuit Protection

UL498 Compliant 2-pole, 20A trip circuit breakers, six (6) branch, rating: ≤ 16A, 5 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 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:
Input Measurement Accuracy
LED Current = ± 10% at 0.1 amp (0.5 - 9.9 amps) and 1 amp (> 9.9 amps) resolution
GUI Current = ± 1% at 0.01 amp resolution (above 0.5 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

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

Optional Accessories

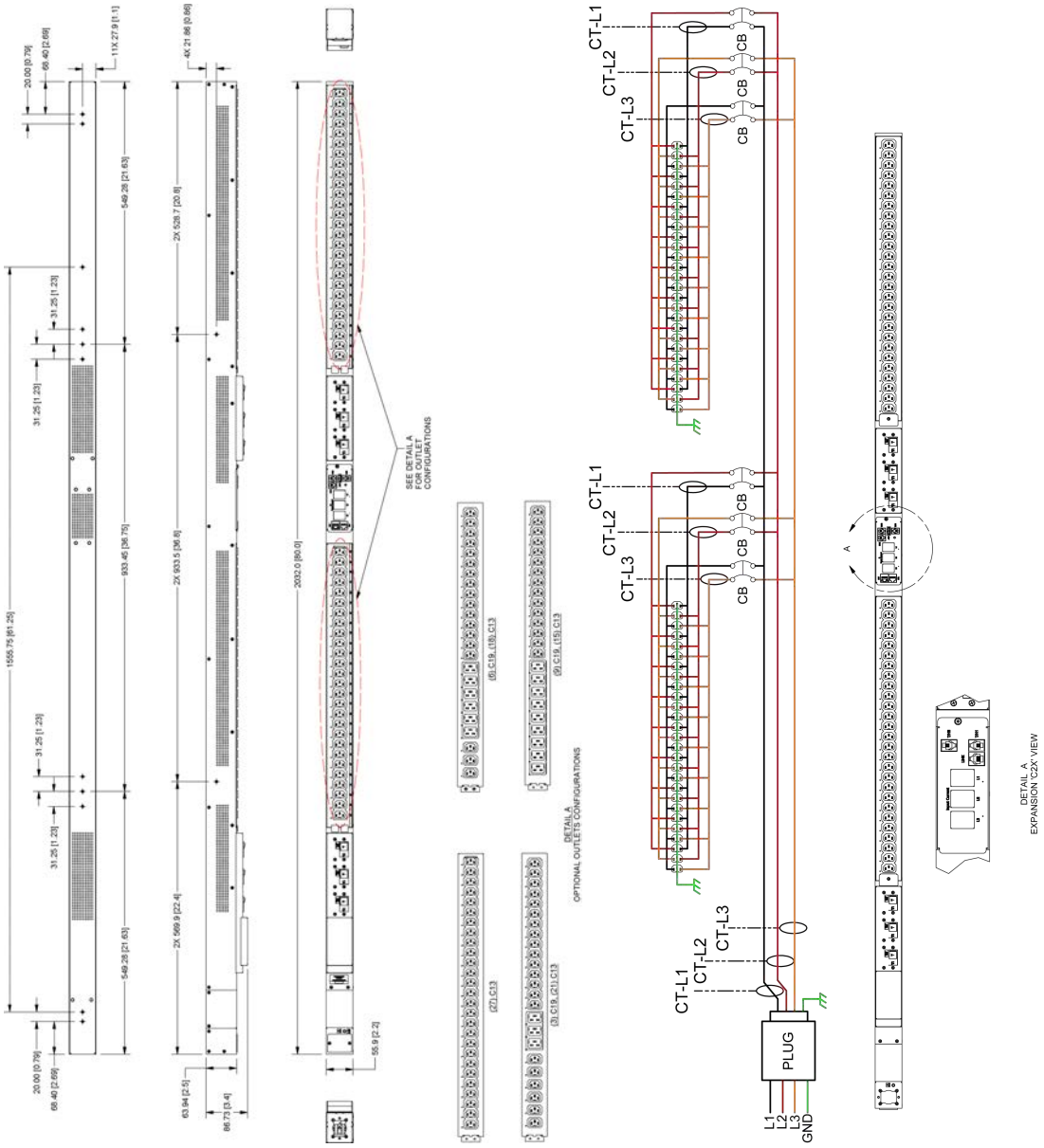
EMTH-1-1 Combination Temperature/Humidity Probe, 10ft (3m)
EMCU-1-1B Environmental Monitor adding:
- Two (2) EMTH-1-1 temperature/humidity ports (one probe included)
- One (1) EMWS-1-1 water sensor port (probe sold separately)
- Four (4) dry contact (NO/NC) monitoring points
- One (1) 8-bit analog-to-digital 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

Drawings


CT-L1
CT-L2
CT-L3
CB
PLUG
L1
L2
L3
GND
SEE DETAIL A FOR OUTLET CONFIGURATIONS
DETAIL A OPTIONAL OUTLETS CONFIGURATIONS
DETAIL A EXPANSION 'C2X' VIEW

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.

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