Sentry Smart CDU®

CS36CA 208V 3-Phase 50/60A with PIPS®

High Density Power Distribution

The Server Technology Smart CDU 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 highly-accurate measurement of current, voltage, active power, apparent power, power factor, crest factor, and accumulated energy. 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 Smart "Master" CDU can be connected to the Smart "Link" CDU to extend the network access to the redundant or secondary power feed.

Key Features

- **High Density:** Single-power input feed; (24) C13 and (12) C19 outlets per enclosure
- **Power Distribution:** 208V 3-Phase, 50A or 60A power input options.
- **Input Current Monitor:** Precisely measure the aggregate current draw (in amps). On-site verification of the input current with the LED digital display. Remote verification via web browser or serial screen.
- **IP Access & Security:** Web interface, SSL, SSH, Telnet, SNMP, FTP, SNTP, Syslog, LDAP, LDAPS, RADIUS, TACACS and RS-232 access
- **Alerts:** Provide automated SNMP-based alarms or email alerts for power and environmental conditions
- **Environmental Monitoring:** Each Smart CDU supports two external temperature & humidity probes and reports conditions through the user interface without the need for additional IP addresses
- **Add an Expansion Module:** Connect the Smart Expansion CDU (CL) to a Master unit (CS) for power monitoring of separate power circuits from a single IP address

CISCO™
DEVELOPER
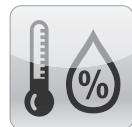**Registered**

Additional Benefits:

Branch Circuit Protection
The Sentry CDU Family meets the UL 60950-1 requirement for Branch Circuit Protections
- UL-489 rated circuit breakers

PIPS - Per Input Power Sensing
Accurately measures Active Power, Apparent Power, Energy k-Wh, Power Capacity, Reactance, and Power Capacity Used using the network interface. See the aggregate current draw, in Amps, locally using the onboard LED.

Temperature and Humidity
The Smart CDU supports two external 10' (3m) probes. Each of these probes measure both temperature and humidity. Receive SNMP-based alerts or email notifications when conditions exceed defined thresholds.

Linking for Smart CDU (Expansion Modules)
The Smart CDU family has the capability to daisy chain units together. The Expansion Module provides the ability to link two power circuits under one IP address.

High Density Outlet Technology
The highest possible outlet density available in a network connected PDU. Up to 42 C13's in a 42U high by 1U wide device.

Locking Outlets
All receptacles are fully compatible with Server Technology's LockedIn power cords (supplied separately).

Alternating Phase
Phased power is alternated between each outlet instead of each branch. This simplifies load balancing. Reduce the cord clutter from each server in the rear of lengths to rack mounted appliances.

Autoflip Current Display
Exclusive True RMS current monitoring is critical to preventing overloads in high-density computing environments. LED digital displays on the CDU enclosure report the input current of each phase for simple load balancing.

Image of
CS39CA-DQME2709

Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions ** (L x W x D)
CS36CA-DQME2766 CL36CA-DQME2766*	208V, 3-phase Delta, 50/60Hz	48A (60A peak)	IEC Blue 9hr 3P+G plug 10'(3m), base entry	(24) IEC 60320/C13 (12) IEC 60320/C19	70.0 x 1.75 x 3.0 in. (1788 x 45 x 77 mm)
CS36CA-DFME2766 CL36CA-DFME2766*	208V, 3-phase Delta, 50/60Hz	40A (50A peak)	CS8365 Plug 10'(3m), base entry	(24) IEC 60320/C13 (12) IEC 60320/C19	70.0 x 1.75 x 3.0 in. (1788 x 45 x 77 mm)
CS36CA-YQME2766 CL36CA-YQME2766*	208V, 3-phase Wye, 50/60Hz	48A (60A peak)	IEC Blue 9hr 3P+N+G plug 10'(3m), base entry	(24) IEC 60320/C13 (12) IEC 60320/C19	70.0 x 1.75 x 3.0 in. (1788 x 45 x 77 mm)

* CL part numbers refer to the Expansion CDU
** 3.5 in. (89 mm) at breakers
Note: Cx36CA-xxME25xx configurations have a bottom/front cord entry

Additional Features and Specifications

Agency Approvals

. cTUVus Mark to UL 60950-1:2007 and CAN/CSA 22.2 No. 60950-1-07
. EMC to EN 55022 Class A, EN 55024, CISPR 22 Class A
. FCC Class A, Part 15
. RoHS/WEEE

Communications and 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)
• Web-browser GUI and command-line-interface (CLI)
  HTTP/HTTPS, SSLv3/TLSv1, SSHv2, Telnet, SNMPv2c and v3 (GET, SET, Traps), IPv4 and IPv6, LDAPv3/LDAPS, TACACS+, RADIUS

Branch Circuit Protection

• UL489 compliant circuit breakers, 2-pole, 20A
• Six (6) branches
• Current Rating: ≤ 16A
• Voltage Rating: 208V-240V nominal, 50/60Hz

Warranty

Server Technology offers a standard 2-year limited parts & labor warranty. Extended support is available at the time of purchase. See "http://www.servertech.com/support/server-tech-warranty" Support Options on the website, or contact your local Server Technology representative for more information.

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)
• 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 Ready
• Device / Output Locking Power Cords
    -Multiple options available
    -Contact Server Technology for details.
• Mounting Brackets
    -Buttons (KIT-0020) included for tool-less mounting.

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

Legal

• Information on Server Technology patents is available on the website at: http://www.servertech.com/products/patents"
• Information in this document is current as of time of publishing. Contact your Server Technology representative for the most up-to-date information.
• Server Technology, the Globe logo, CDU, Sentry, and PIPS are trademarks of Server Technology, Inc., registered in the U.S. HDOT is a trademark of Server Technology, Inc.