

Sentry Smart CDU®

Key Features

- **High Density:** Single-power input feed; (36) C13 + (3) C19 outlets per enclosure
- **Power Distribution:** 208V-240V, 16A, 20A, 30A, or 32A 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, SNT, 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



CS39CS-2/E 208V 20/30A 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.

Additional Benefits:



Branch Circuit Protection

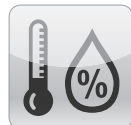
The Sentry CDU Family meets the UL 60950-1 requirement for Branch Circuit Protections

- 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).



Power Pivot

A 90 degree rotatable power cord makes it the ultimate PDU for multiple racks and multiple facilities with overhead power or raised floor.



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.



Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CS39CS-2ABA2S111 CL39CS-2ABA2S111*	208-240V L-L Nominal, 50/60Hz	≤16A (20 peak)	IEC 60320 / C20	(36) IEC 60320/C13 (3) IEC 60320/C19	69.0 x 1.75 x 2.25 in. (1753 x 45 x 58 mm)
CS39CS-2CBA2S111 CL39CS-2CBA2S111*	208-240V L-L Nominal, 50/60Hz	≤24A (30 peak)	NEMA L6-30P, 10ft, 3-C, 10AWG, SJT	(36) IEC 60320/C13 (3) IEC 60320/C19	69.0 x 1.75 x 2.25 in. (1753 x 45 x 58 mm)
CS39CS-EABA2S111 CL39CS-EABA2S111*	220-240V L-N Nominal, 50/60Hz	≤16A	IEC 60320 / C20	(36) IEC 60320/C13 (3) IEC 60320/C19	69.0 x 1.75 x 2.25 in. (1753 x 45 x 58 mm)
CS39CS-EPBA2S111 CL39CS-EPBA2S111*	220-240V L-N Nominal, 50/60Hz	≤32A	IEC 60309 6hr 2P+PE Blue, 3m, H05VV-F, 4.0mm ²	(36) IEC 60320/C13 (3) IEC 60320/C19	69.0 x 1.75 x 2.25 in. (1753 x 45 x 58 mm)

* CL part numbers refer to the Expansion CDU

Additional Features and Specifications

Agency Approvals

- cTUVus Mark to UL 60950-1:2007 and CAN/CSA 22.2 No. 60950-1-07
- TUVGS Mark to EN 60950-1:2006 + A11
- EMC to EN 55022 Class A, EN 55024, CISPR 22 Class A
- FCC Class A, Part 15
- CE Mark
- 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
- Two (2) branches
- Current Rating: ≤ 16A
- Voltage Rating: 208V-240V nominal, 50/60Hz

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

Click here to see Mounting Bracket Options

Contact Server Technology

HEADQUARTERS - NORTH AMERICA
 Server Technology, Inc.
 1040 Sandhill Drive
 Reno, NV 89521
 United States
 1.775.284.2000 Tel
 1.775.284.2065 Fax
sales@servertech.com
www.servertech.com
www.servertechblog.com

Western Europe, Middle East and Africa
 Server Technology
 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

Central Europe, Eastern Europe and Russia
 Niederlassung Deutschland
 Server Technology LLC
 42119 Wuppertal
 Germany
 Tel: + 49 202 693917 x 0
 Fax: + 49 202 693917-10
salesint@servertech.com

APAC
 Server Technology
 Room 2301, 23/F, Future Plaza
 111-113 How Ming Street,
 Kwun Tong, Hong Kong
 Direct line: +852 3916 2048
 Fax Line: +852 3916 2002
salesint@servertech.com

Warranty

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

Legal

- Information on Server Technology patents is available on the website at: <http://www.servertech.com/products/patents>
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