

Sentry Switched CDU

CW-16H2/E 208-240V 16xC13 with PIPS

Key Features

- > **High Density:** Single power input feed; 16 outlets per 2U enclosure
- > **High Power Distribution:** 208V, or 230V power options; 16, 20, 30, 32-Amp input feed options
- > **Remote Power Management:** Power cycle individual power outlets, or groups of power outlets, to remotely reboot servers and network devices, anywhere in the world. Or, power-off unused power receptacles
- > **Input Current Monitor:** Precisely measure the aggregate current draw (in amps) on each power circuit. On-site verification of the input current with the LED digital display. Remote verification via browser or serial screen.
- > **IP Access & Security:** Web interface, SSL, SSH, Telnet, SNMP, FTP, SNT, Syslog, LDAP, LDAPS, RADIUS, TACACS, RS-232 access
- > **Traps & Alerts:** Provide automated SNMP-based alarms and email alerts for power and environmental conditions
- > **Environmental Monitoring:** Each Switched CDU supports two temperature & humidity probes and reports conditions thru the Web interface
- > **Add an Expansion Module:** Connect the Switched Expansion CDU (CX) to a Master unit (CW) for power management of separate power circuits from a single IP address
- > **Power-up Sequencing:** Prevent an in-rush power overload



High-Density Power Distribution

The Switched CDU's combine remote configuration and management with power distribution and power and environmental monitoring. Reboot a single or dual-power server with one command. Receive SNMP-based alerts and email alerts when power or environmental conditions exceed thresholds. Assign users specific access rights to designated outlets or groups.

Only the Switched CDU products provide the flexibility needed for all data centers and remote sites, including power requirements for high-amp, high voltage; UL 60950-1 branch circuit protection; SSL & SSH security; and SNMP-based input current monitoring.

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



Linking (Expansion Modules)

The Switched 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.

Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CW-16H2A454 CX-16H2A454*	208-240V 50/60Hz	20A	IEC 60320/C20 Power Inlet	(16) IEC 60320/C13	3.50 x 17.00 x 7.00 in. (89 x 432 x 178mm)
CW-16H2C454 CX-16H2C454*	208-240V 50/60Hz	30A	NEMA L6-30P Cordset, 10 ft (3m)	(16) IEC 60320/C13	3.50 x 17.00 x 7.00 in. (89 x 432 x 178mm)
CW-16HEA454 CX-16HEA454*	230V 50/60Hz	16A	IEC 60320/C20 Power Inlet	(16) IEC 60320/C13	3.50 x 17.00 x 7.00 in. (89 x 432 x 178mm)
CW-16HEK454 CX-16HEK454*	230V 50/60Hz	32A	IEC 60309 Cordset, 10 ft (3m)	(16) IEC 60320/C13	3.50 x 17.00 x 7.00 in. (89 x 432 x 178mm)

*CX refers to the Expansion Unit

Additional Features and Specifications

Agency Approvals

- > US & Canada (cTUVus mark) to UL 60950-1:2007 and CAN/CSA 22.2 No. 60950-1-07
- > European Union (TUVGS mark) to EN 60950-1:2006 +A11
- > FCC Class A, Part 15
- > CE
- > EMC to EN 55022 Class A, EN 55024, CISPR 22 Class A

Communications and Security

- > 10/100 BaseT Ethernet
- > HTTP/HTTPS
- > SSLv3/TLSv1
- > SNMPv2/v3
- > SSHv2
- > Telnet
- > LDAPv3
- > LDAPS
- > TACACS+
- > RADIUS
- > RS-232 (Serial)
- > IPv6

Branch Circuit Protection

- > Compliant to UL 60950-1

Power Cord Options

- > PTCORD-1 IEC 60320/C19 - NEMA L6-20P, 10ft (3m)
- > PTCORD-2 IEC 60320/C19 - Schuko 10ft (3m)
- > PTCORD-3 IEC 60320/C19 - IEC 60309 (BS4343, CEE17) 16/20A Blue (UK Commando) 10ft (3m)
- > PTCORD-4 IEC 60320/C19 - BS1363 13A (UK) 10ft (3m)

Accessories

- > Optional Temperature & Humidity Probe
 - EMTH-1-1 Temperature & Humidity Probe, 10ft (3m)
- > Environmental Monitor
 - EMCU-1-1B allows up to (2) additional temperature & humidity probes, (1) water sensor, (4) dry contact closures, (1) analog-to-digital contact sensor. Includes (1) temperature/humidity probe with unit.
- > SPM (Sentry Power Manager):
 - Monitor and Manage multiple Sentry CDU's
 - Monitor and Manage all alarm conditions
 - Reporting and Trending
 - Group or Cluster outlets for reboot and power information
 - Optional Appliance or virtual version
 - SPM v5.1+ is VMware READY



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Rear View: network, serial, linking and temperature/humidity inputs



Expansion Unit Model Numbers

- > CX-16H2A454
- > CX-16H2C454
- > CX-16HEA454
- > CX-16HEK454



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