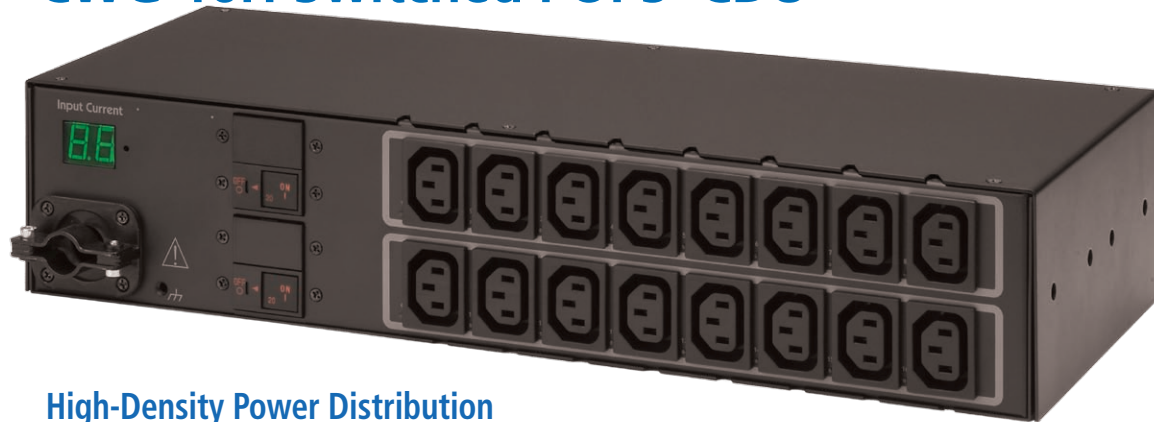# Sentry Switched CDU

CWG-16H Switched POPS™ CDU

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, SNTP, 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 (CXG) to a Master unit (CWG) 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:

POPS   (Per Outlet Power Sensing)
Monitor Current Load (A), Voltage (V), Power (W), Apparent Power (VA), Crest Factor and Power Factor per outlet at an accuracy of ±2%.

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

Input Current Monitoring
Exclusive Digital True RMS current monitoring is critical to preventing overloads in high-density computing environments. LED digital display on the CDU enclosure report the input current of the branch circuit.

Temperature and Humidity
The Switched CDU supports two external probes. Each of these probes measure both temperature and humidity. Receive SNMP-based alert notifications when conditions exceed defined thresholds.

POPS

Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CWG-16H2A452 CXG-16H2A452*	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)
CWG-16H2C452 CXG-16H2C452*	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)
CWG-16HEA452 CXG-16HEA452*	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)
CWG-16HEK452 CXG-16HEK452*	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)

*CXG refers to the Expansion Module

Additional Features and Specifications

Agency Approvals
> US & Canada (cTUVus mark) to UL 60950-1:2003 and CAN/CSA 22.2 No. 60950-1-03
> European Union (TUVGS mark) to EN 60950-1:2001
> 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
> SSHv2
> Telnet
> LDAPv3
> LDAPS
> TACACS+
> RADIUS
> RS-232 (Serial)

Branch Circuit Protection
> Compliant to UL 60950-1

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) Appliance:
    - 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

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)
> PTCORD-5   IEC 60320/C19 - 5-15P (15A Straight-Blade) 10ft (3m)
> PTCORD-6   IEC 60320/C19 - 5-20P (20A Straight-Blade) 10ft (3m)
> PTCORD-7   IEC 60320/C19 - L5-20P (20A Twist-Lock) 10ft (3m)

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

Expansion Module Model Numbers
> CXG-16H2A452
> CXG-16H2C452
> CXG-16HEA452
> CXG-16HEK452

Server Technology