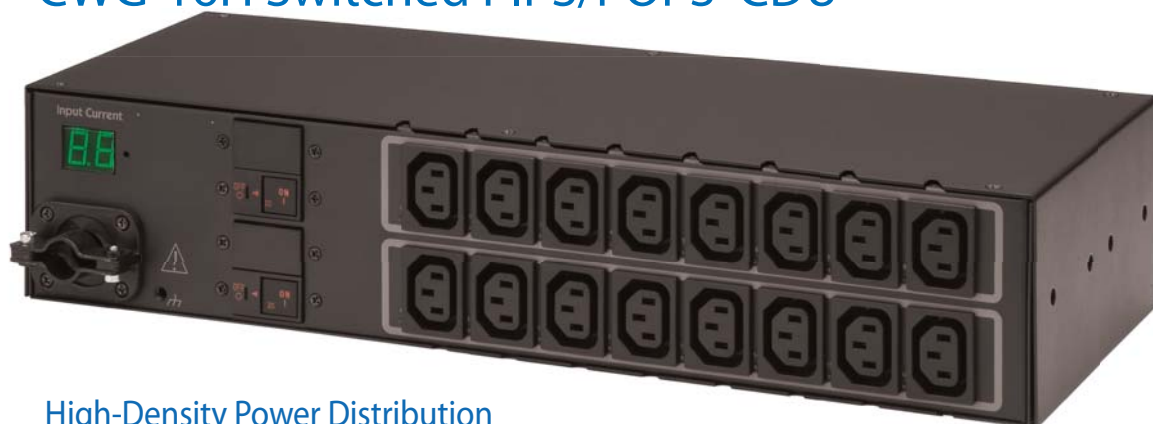# Sentry Switched CDU

CWG-16H Switched PIPS/POPS™ CDU

Key Features

> **High Density:** Single power input feed; 16 outlets per 2U enclosure

> **High Power Distribution:** 208-240V, 20A and 30A; 230V 16A and 32A 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

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 probes. Each of these probes measure both temperature and humidity. Receive SNMP-based alert notifications when conditions exceed defined thresholds.

Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CWG-16H2A454 CXG-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)
CWG-16H2C454 CXG-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)
CWG-16HEA454 CXG-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)
CWG-16HEK454 CXG-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)

*CXG refers to the Expansion

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

Communications and Security
> 10/100 BaseT Ethernet
> HTTP/HTTPS
> SSLv3/TLSv1
> SNMPv2 and v3
> SSHv2
> Telnet
> LDAPv3
> LDAPS
> TACACS+
> RADIUS
> RS-232 (Serial)
> IPv4 and v6

Branch Circuit Protection
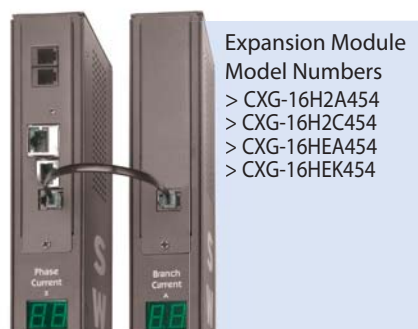> Compliant to UL 60950-1

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)

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

Expansion Module Model Numbers
> CXG-16H2A454
> CXG-16H2C454
> CXG-16HEA454
> CXG-16HEK454