

Sentry Switched CDU

Key Features

- > **High Density:** Single-power input feed; 24 outlets per enclosure (Qty 18 IEC C13 & 6 IEC C19 outlets)
- > **Power Distribution:** 240/415V 3-phase, 20 or 30A power input feed option with 240V output.
- > **Input Current Monitor:** Precisely measure the aggregate current draw (in amps) of each phase of the circuit. On-site verification of the input current with LED digital display. Remote verification via web browser or serial screen.
- > **Networked 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
- > **IP Access & Security:** Web interface, SSL, SSH, Telnet, SNMP, FTP, SNT, Syslog, LDAP, LDAPS, TACACS, RADIUS, and RS-232 access
- > **SNMP Traps and Email alerts:** Provide automated alerts for power and environmental conditions
- > **Environmental Monitoring:** Each Switched CDU supports two external temperature & humidity probes and reports conditions thru the user interface without the need for additional IP addresses
- > **Add an Expansion Module:** Daisy chain the Switched CDU Expansion Module (CXG) for power monitoring of separate power circuits from a single IP address

CWG-24V5 Switched POPS™ CDU with Mixed Outlets

High-Density Power Distribution

The Switched CDU combines network configuration and management with power distribution, environmental monitoring and the ability to provide power monitoring per an individual outlet/device. Power information per outlet includes current, voltage, power (kW), apparent power (VA), crest factor and power factor. Reboot a single or dual-power server with one command. Receive SNMP or email-based alerts when power or environmental conditions exceed thresholds. Assign user specific access rights to designated outlets or groups.

This Switched CDU has top entry for network, serial & environmental connections combined with a bottom power cord entry. Current monitors are easily inverted via the web GUI or serial interface. This provides flexibility when connecting Switched CDU's to overhead power or busways.

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 $\pm 2\%$.



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



Mixed Outlets

This Switched CDU combines both IEC 60320/C13 and IEC 60320/C19 switched outlets within a single CDU. For rebooting non-responsive servers & network devices.



Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CWG-24V52411A1 CXG-24V52411A1*	3Ph Wye, 240/415V, 50/60Hz	20A	NEMA L22-20 Cordset 10ft (3m)	(18) IEC 60320/C13 (6) 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)
CWG-24V53411A1 CXG-24V53411A1*	3Ph Wye 240V/415V 50/60Hz	20A	IEC 60309 Cordset 10ft (3m)	(18) IEC 60320/C13 (6) 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)
CWG-24V5Z411A1 CXG-24V5Z411A1*	3Ph Wye 240V/415V 50/60Hz	30A	NEMA L22-30P Cordset 10ft (3m)	(18) IEC 60320/C13 (6) 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)
CWG-24V54411A1 CXG-24V54411A1*	3Ph Wye 240V/415V 50/60Hz	30A	IEC 60309 Cordset 10ft (3m)	(18) IEC 60320/C13 (6) 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)

* CXG part numbers refer to the Expansion CDU

Additional Features and Specifications

Agency Approvals

- > US & Canada (cTUVus Mark) to UL 60950-1:2003 and CAN/CSA 22.2 No. 60950-1-03
- > 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
- > LDAPS/LDAPv3
- > TACACS+
- > RADIUS
- > RS-232 (Serial)

Branch Circuit Protection

- > Compliant to UL 60950-1

Accessories

- > Optional Temperature & Humidity Probe
 - EMTH-1-1 Temperature & Humidity Probe, 10 ft (3m)
- > 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
- > 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.



Expansion Module Model Numbers

- > CXG-24V52411A1
- > CXG-24V53411A1
- > CXG-24V5Z411A1
- > CXG-24V54411A1

415 V 3-Phase power distribution to the rack level is fairly new technology in North American Data Centers. Increased power demand, higher power costs and reduced power availability are driving technologies like this that increase the efficiency within the Data Center. By bringing single phase 240 V power directly to the devices in the cabinet there is a sizable efficiency gain both in the power distribution system and in device itself. If you require further information you can reference our White Paper "**Deploying 415 VAC Power Distribution in North American Data Centers**" paper number STI-100-008 posted on our web site.



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