Sentry Switched CDU

CWG-24V5 Switched POPS™ CDU with 12xC13 and 12xC19 with PIPS

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.

Key Features

> **High Density:** Single-power input feed; 24 outlets per enclosure (Qty 12 IEC C13 & 12 IEC C19 outlets)

> **Power Distribution:** 240/415V 3-phase, 20/30A 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, SNTP, 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

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 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-24V53458A9 CXG-24V53458A9	240/415V 3-Phase Wye, 50/60Hz	20A	IEC Red 6hr 3P+N+G Plug, 10'(3m), Top Cord Entry	(12) IEC 60320/C13 (12) IEC 60320/C19	1753 x 44.4 x 88.9 mm [69.0 x 1.75 x 3.50 in.]
CWG-24V54458A9 CXG-24V54458A9	240/415V 3-Phase Wye, 50/60Hz	30A	IEC Red 6hr 3P+N+G Plug, 10'(3m), Top Cord Entry	(12) IEC 60320/C13 (12) IEC 60320/C19	1753 x 44.4 x 88.9 mm [69.0 x 1.75 x 3.50 in.]
CWG-24V5Z458A9 CXG-24V5Z458A9	240/415V 3-Phase Wye, 50/60Hz	30A	NEMA L22-30P Plug, 10'(3m), Top Cord Entry	(12) IEC 60320/C13 (12) IEC 60320/C19	1753 x 44.4 x 88.9 mm [69.0 x 1.75 x 3.50 in.]

* 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.

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.

1U SPM Appliance

Expansion Module Model Numbers
> CXG-24V53458A9
> CXG-24V54458A9
> CXG-24V5Z458A9

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

EMEA
Server Technology Intl
Sienna Court
The Broadway
Maidenhead
Berkshire
SL6 1NJ
United Kingdom
+44 (0) 1628 509053 Tel
+44 (0) 1628 509100 Fax
salesint@servertech.com

APAC
Server Technology Intl
37th Floor, Singapore Land Tower
50 Raffles Place
Singapore 048623
+65 (0) 6829 7008 Tel
+65 (0) 6234 4574 Fax
salesint@servertech.com

© Server Technology, Inc. 8/2011 version. Information in this document is subject to change without notice. Sentry and Server Technology are trademarks of Server Technology, Inc.