Sentry Smart CDU

CSG-24VD/VY 20/30A Smart POPS™ with Mixed Outlet

High-Density Power Distribution

The Smart Cabinet Power Distribution Units (CDU) provide reliable power distribution combined with local and remote power monitoring and environmental monitoring via IP. Use the network interface to view power, temperature and humidity levels via Web browser, or receive SNMP-based alarms and email alerts when conditions exceed defined thresholds.

Sentry POPS (Per Outlet Power Sensing) combines all of the features and functions of a Smart CDU with the ability to provide power monitoring per an individual outlet/device. Power information per individual outlet/device includes current, voltage, power (kW), apparent power, crest factor, and power factor. Using out grouping technology, power information is available per device, groups of devices (application), individual CDU or cabinet.

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, and Power Capacity Used using the network interface. See the aggregate current draw, in Amps, locally using the onboard LED.

Temperature and Humidity
The Smart 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 Smart CDU combines 18 IEC 60320 C13 and 6 IEC 60320 C19 outlets within a single CDU to monitor power at the outlet-level.

Key Features

> **High Density:** 24 outlets per enclosure (18) IEC C13 and (6) IEC C19 outlets

> **Power Distribution:**
   208-240 3-Phase Delta and Wye 20/30A power infeed options.

> **Input Current Monitor:** Precisely measure the aggregate current draw (in amps) of the circuit. On-site verification of the input current with LED digital display. Remote verification via web browser or serial screen.

> **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 Smart 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:** Connect the Smart Expansion CDU (CLG) to a Master unit (CSG) for power monitoring of separate power circuits from a single IP address

Model	Available Input Voltages	Amperage	Available Input Cord	Outlets	Dimensions (L x W x D)
CSG-24VDD415A1 CLG-24VDD415A1	240V 3-Phase Delta 50/60Hz	20A	NEMA L15-20P Plug, 10'(3m), Bottom/Frt Cord	(18) IEC 60320/C13 (6) IEC 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)
CSG-24VDE415A1 CLG-24VDE415A1*	240V 3-Phase Delta 50/60Hz	30A	NEMA L15-30P Plug, 10'(3m), Bottom/Frt Cord	(18) IEC 60320/C13 (6) IEC 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)
CSG-24VYL415A1 CLG-24VYL415A1*	208V 3-phase Wye 50/60 Hz	20A	NEMA L21-20P Plug, 10'(3m), Bottom/Frt Cord	(18) IEC 60320/C13 (6) IEC 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)
CSG-24VYM411A1 CLG-24VYM411A1*	208V 3-phase Wye 50/60 Hz	30A	NEMA L21-30P Plug, 10'(3m), Bottom/Frt Cord	(18) IEC 60320/C13 (6) IEC 60320/C19	69.0 x 1.75 x 3.50 in. (1753 x 44 x 89 mm)

* CLG 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 Mark
> 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.

1U SPM Appliance

Expansion Module Model Numbers
> CLG-24VDD415A1
> CLG-24VDE415A1
> CLG-24VYL415A1
> CLG-24VYM411A1

Server Technology