



Server Technology

Solutions for the Data Center Equipment Cabinet™

Power Tower XL Fail-Safe

Power Distribution
Remote Management
Power Monitoring
Power Redundancy
Environmental Monitoring

Key Features

- **Fail-Safe:** Redundant power feeds pick up the entire load for both circuits if either power feed fails
- **Remote Management:** Reboot locked-up servers and network gear via IP or out-of-band
- **Power-up Sequencing:** Outlets power-on in intervals - averting the potential for a power in-rush to blow a circuit breaker in the data center
- **Input Current Monitor:** View the Input Current Monitor remotely and on the enclosure to determine the aggregate load on the power circuit
- **Authentication:** Multiple user accounts can be established with designated access rights
- **Advanced Security:** Secure Proxy Server for complete encryption of network sessions. MD5 security for browsers.
- **Web GUI:** Full configuration & control for grouping & control of outlets, configuring accounts and settings.
- **Add a Second Tower:** Connect a Power Tower Expansion Module (PTXM) to each PTXL to control up to 32 managed outlets
- **Outlet Grouping:** Group individual outlets for control of dual-power supply servers & devices with a single command
- **Programmable 24-character outlet receptacle names**
- **Power Distribution:** 20 or 30-amp power input feeds with straight-blade or twist-lock plug connectors. 110 VAC or 230 VAC
- **TCP/IP Control:** 10/100 Base-T Ethernet control via HTML, Telnet and SNMP
- **RS-232 Control**
- **Global Secure Modem:** Field-replaceable modem can be added at any time
- **Environmental Monitoring:** Add °C, %Rh, H₂O and door status monitoring with the EMCU-1-1



Power Tower XL Fail-Safe

The Sentry Power Tower XL (PTXL) Fail-Safe™ provides fail-over redundancy to single or dual-power supply servers and network devices. The unique ability to carry loads on the A circuit, the B circuit or both—and to remotely manage the outlets—is an exclusive feature of the PTXL Fail-Safe.

Similar, but unlike a common automatic transfer switch (ATS), the PTXL Fail-Safe unit is unique in that it contains two (2) infeeds and two (2) banks of eight (8) outlets each, for a total of 16 outlets across the two circuits. The "A" infeed routinely powers just the A1-8 outlets, and the "B" infeed routinely powers just the B1-8 outlets. However, if power to an infeed is lost, the eight outlets for that infeed fail-over to the remaining live circuit. The transfer occurs in fewer than 18 milliseconds, plenty fast to avoid any interruption to the attached equipment.

With the PTXL Fail-Safe, if the "A" infeed goes down, the "B" infeed powers all 16 outlets. If the "B" infeed goes down, the "A" infeed powers all 16 outlets. This new "Fail-Safe" method has several advantages compared to a standard ATS:

1. It does not prohibit load balancing between the two supplied circuits. A standard ATS contains two infeeds, but runs all outlets from just one source, with the secondary source only being used once an outage occurs on the primary. The entire load therefore needs to be transferred when a primary source outage occurs. The "Fail-Safe" method differs in that both circuits are routinely loaded, but only to half capacity. So, if two 20A circuits are provided, each circuit can be loaded to a 10A maximum; 30A circuits can be loaded to a 15A maximum. Compared to the same load existing on just one source, **the Fail-Safe method results in less heat, less resistance, and consequently less of a voltage drop.** Only when an outage occurs on one of the two sources will the entire load be applied to a single source.
2. With the PTXL Fail-Safe, the actual load switched is half that of a standard ATS. Relay life is definitely extended due to this design.
3. The PTXL Fail-Safe supports both single and dual-power supply servers. A single power supply device simply plugs into any of the 16-outlets and receives redundancy due to the Fail-Safe. A dual-power device would have one plug attached to the "A" bank of outlets and the second plug attached to the same position outlet in the "B" bank. Separate-circuit redundancy exists for the two supplies, and, if one infeed does go down, the Fail-Safe kicks -in and BOTH power supplies still receive power.

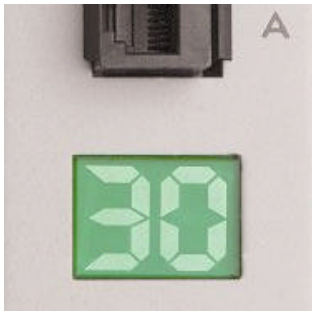
PTXL-HF16 SPECIFICATIONS

Item #	Description	Voltage	Maximum line Current	Power Inlets	Outlets
PTXL-HF16-1-02	Power Tower XL Horizontal 16 outlets Dual Fail-Safe Power Feeds	100-120 V 50/60Hz	2 x 20-Amp	IEC60320/C20 inlets accept detachable power cords	NEMA 5-15R
PTXM-HF16-1-02	Power Tower <i>Expansion Module</i> Horizontal 16 outlets Dual Fail-Safe Power Feeds	100-120 V 50/60Hz	2x 20-Amp	IEC60320/C20 inlets accept detachable power cords	NEMA 5-15R
PTXL-HF16-1-05	Power Tower XL Horizontal 16 outlets Dual Fail-Safe Power Feeds	100-120 V 50/60Hz	2 x 30 Amps	L5-30P hard-wired	NEMA 5-15R
PTXM-HF16-1-05	Power Tower <i>Expansion Module</i> Horizontal 16 outlets Dual Fail-Safe Power Feeds	100-120 V 50/60Hz	2 x 30 Amps	L5-30P hard-wired	NEMA 5-15R
PTXL-HF16-2-02	Power Tower XL Horizontal 16 outlets Dual Fail-Safe Power Feeds	208-240 V 50/60Hz	2 x 20-Amp	IEC60320/C20 inlets accept detachable power cords	IEC 60320/C13
PTXM-HF16-2-02	Power Tower <i>Expansion Module</i> Horizontal 16 outlets Dual Fail-Safe Power Feeds	208-240 V 50/60Hz	2x 20-Amp	IEC60320/C20 inlets accept detachable power cords	IEC 60320/C13
PTXL-HF16-2-06	Power Tower XL Horizontal 16 outlets Dual Fail-Safe Power Feeds	208-240 V 50/60Hz	2 x 30 Amps	L6-30P hard-wired	IEC 60320/C13
PTXM-HF16-2-06	Power Tower <i>Expansion Module</i> Horizontal 16 outlets Dual Fail-Safe Power Feeds	208-240 V 50/60Hz	2 x 30 Amps	L6-30P hard-wired	IEC 60320/C13

Option C-HPT: Global Secure Modem

Optional Power Input Cords:

PTCORD-1 IEC320/C19 - NEMA L6-20P, 10'
PTCORD-7 IEC320/C19 - NEMA L5-20P, 10'



Digital Display Input Current Monitor on the face of the enclosure

Communications

- **RJ 45 NET** 10/100 BaseT Ethernet (HTML, SNMP, Telnet)
- **RJ 45 SER** RS-232
- **RJ 12 LINK** RJ 11 crossover cable

Conformance & Agency Certifications

- US & Canada (cTUVus mark) to UL 60950 3rd Edition and CAN/CSA 22.2 No. 60950-00 3rd edition
- European Union (TUVGS mark) to EN 60950 3rd Edition
- FCC Class A, Part 15

LED Indicators

- **On Sense** indicates receptacle power status
- **Input Current Monitor** Dynamically displays cumulative current load

Accessories

- EMCU-1-1 Environmental Monitoring Control Unit
- RJ-45 crossover cable
- RJ-45 to DB9F serial port adapter
- 19" rack-mounting brackets

Dimensions

3.5" H x 10" D x 19" W (with mounting brackets)

Warranty

- One year

Sentry: Solutions for the Data Center Equipment Cabinet



For more information, please contact
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