

Permanent Power Distribution for Data Centers

PowerTemp.com



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Power Temp Systems

Overview

Established in 1991 as a supplier of specialized “built-to-order” products, we have since developed a complete line of standard portable electrical products that use the latest technology, while maintaining the quality and versatility you have come to expect from Power Temp Systems, Inc. All of our products are engineered and designed to meet or exceed all NEC, UL, ETL, and NEMA standards and regulations for use in all types of environments and applications.



30+ Years Ensuring 24/7 Reliable Power



Equipment Designed and Manufactured in the U.S.A



Reputable Nationwide Sales Network

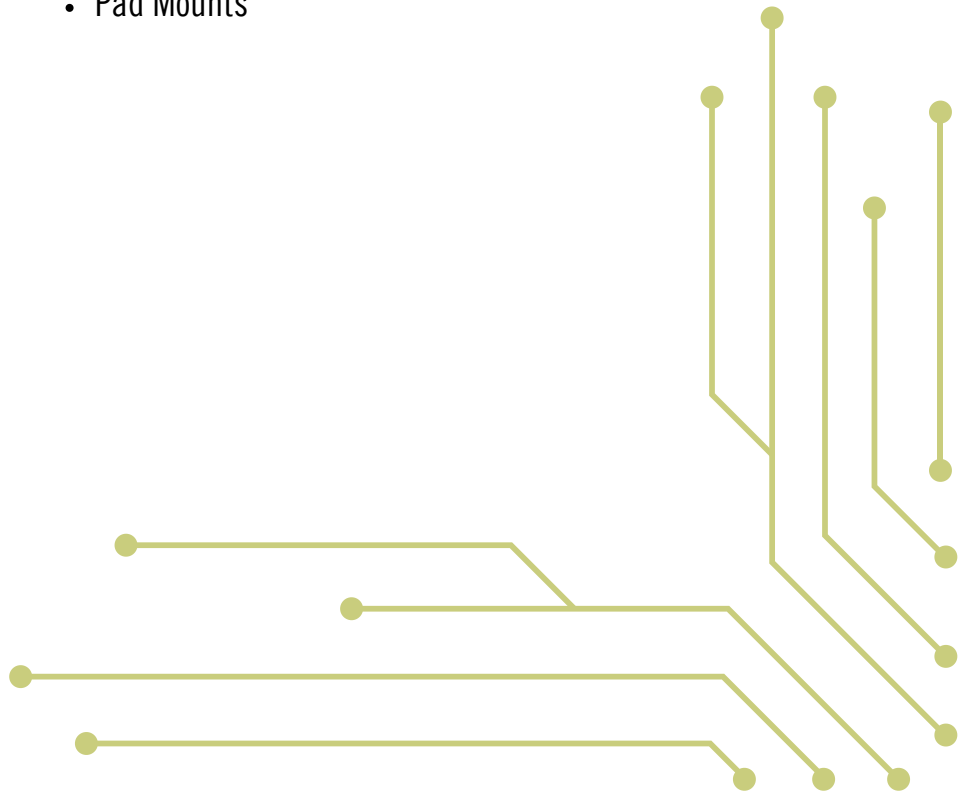
Quick Connect Docking Panels

Overview

Quick connect docking panels simplify and streamline temporary power connections in data center environments, where uptime is critical. Designed for both standard and custom configurations, these panels allow fast, safe integration of portable generators or load banks during power outages or maintenance. By enabling rapid connection to backup systems, they help ensure minimal disruption to operations. With our innovative design and proven expertise, managing temporary power in your data center becomes efficient, reliable, and worry-free.

Applicable Equipment

- Generator Mounted Docking Stations
- Pad Mounts

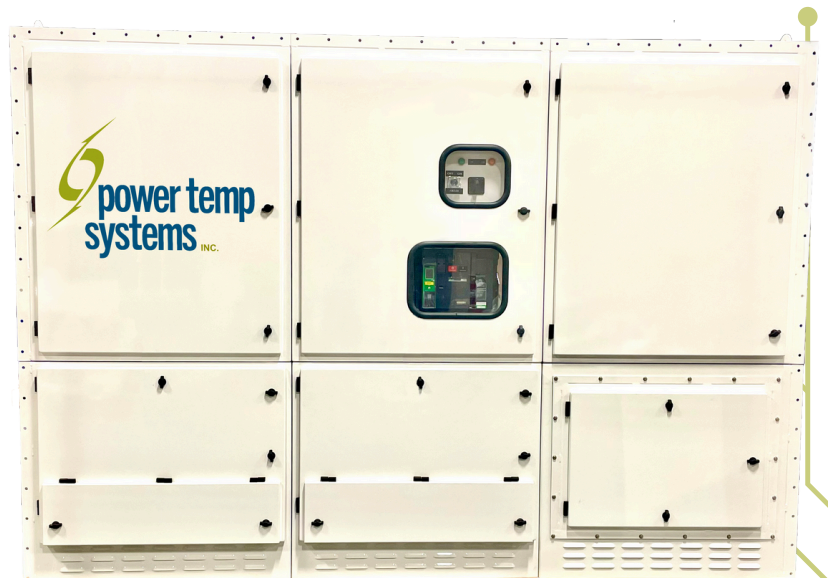


Generator Mounted Docking Stations

Power Temp Systems' generator mounted docking stations deliver reliable, high-performance power solutions specifically designed for data centers. Featuring Cam-Lok connectors and built for seamless integration, they ensure consistent power during both emergency outages and planned maintenance.

Standard Features

- Fully integrated generator docking station
- Available with main breaker/load bank/portable generator Cam-Lok™ boards (“cam-boards”)
- Nema 4RX “while In use” corrosion-resistant powder-coated aluminum flanged enclosures
- UL 891 assemblies for UL 2200 generator assemblies
- Patented smart T-slot input and output bussing for flexible sizes and spacing of any size 2 hole compression lugs and superior temperature rise qualities
- Built to any requirements:
 - Top in/bottom out
 - Top in/top out
 - Bottom in/top out
- Additional Cam-Lok™ for maximum load bank testing
- NFPA 70B and OSHA 70A code compliance via thermal imaging IR Windows and absence of power verification via voltage test ports
- Zero maintenance and unbreakable trapped key interlocks for portable generator connections
- OSHPD/seismic tested and certified
- Also referred to as “data center panels,” integrated generator main breaker load bank panels, generator cam-boards, generator Cam-Lok™ panels, Cam-Lok™ switch boards



Pad Mounts

Power Temp Systems' pad mounts deliver reliable, scalable power solutions tailored to the demanding needs of data centers. With advanced safety features, flexible installation options, and rugged, modular construction, they ensure seamless integration and fast response during both temporary outages and permanent infrastructure upgrades.

Standard Features

- Dual trapped key isolation breakers
- Single or dual purpose 45-degree angled Cam-Lok™'s
- Phase rotation monitor
- 2-wire auto start terminals with signal destination switch
- Voltage test port
- Extra depth with bottom conduit access
- Pad lockable and tamper resistant
- NEMA 3RX powder coated aluminum enclosure

Configuration Options

- Docking station
- Single breaker
- Double breaker
- Triple breaker
- Automatic transfer switch
- Rotary transfer switch
- Company switch
- Modular switch board (M-Gear)



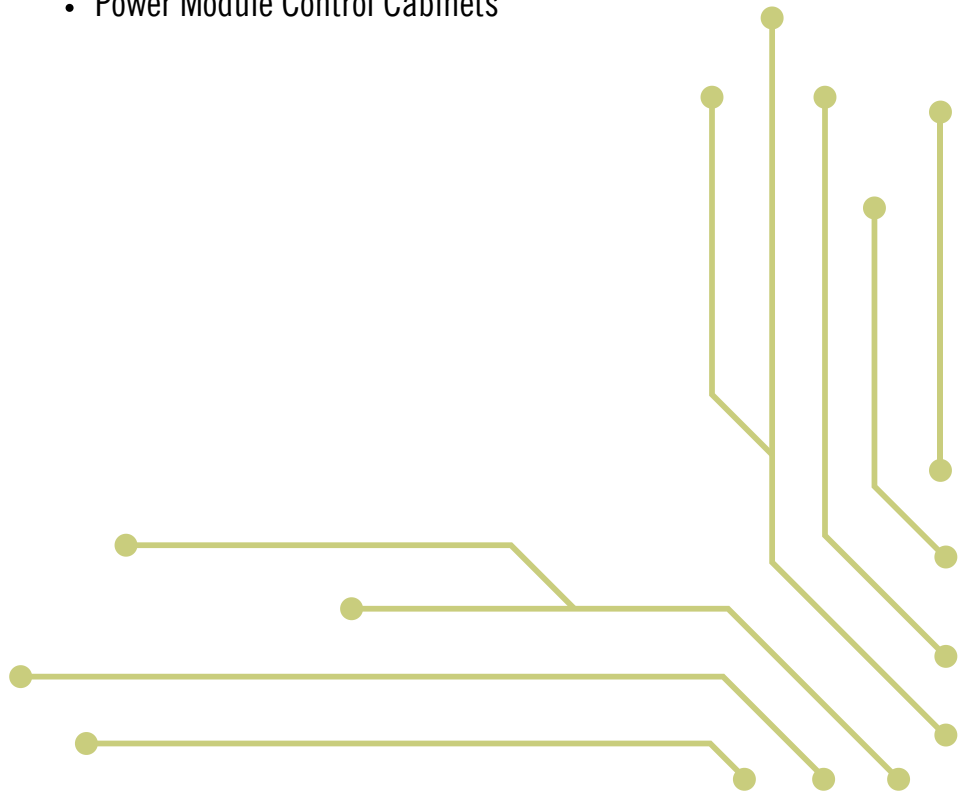
Permanent Generator Paralleling Equipment

Overview

Power Temp Systems' permanent generator paralleling equipment delivers reliable and efficient power management solutions designed to meet the critical demands of data centers. From standard common bus panels to fully customizable parallel gear, our systems ensure seamless generator integration, optimized load sharing, and continuous uptime, supporting the performance and resilience your data center requires.

Applicable Equipment

- Modular Switch Boards (M-Gear)
- Power Module Control Cabinets



Modular Switch Boards (M-Gear)

When it comes to emergency power distribution in data centers, reliability and adaptability are essential. Power Temp Systems' modular switch boards (M-Gear) deliver consistent, dependable power tailored to support the critical uptime requirements and evolving infrastructure needs of modern data centers.

Standard Features

- **Amperage rating:** 400-8000 Amps
- **Input options:** Single or multiple inputs ranging from 100-4000 Amps
- **Output options:** Specified quantities from 100-5000 Amps
- **Enclosure type:** Durable NEMA 1RX or 3RX powder-coated aluminum for enhanced protections
- **Safety and compliance:** UL 891 certified and OSHPD/Seismic certified for enhanced safety and reliability
- **Load bank and Cam-Lok™ options:** For easy integration with existing systems
- **Trapped key and accessible Cam-Loks™'s:** Enhancing operational safety and convenience
- **Shorter lead times:** Streamlined manufacturing process for quicker deployment

Customizable Features

- Includes metering, CTs, infrared windows, life safety segregation, top hats, and side cars



Power Module Control Cabinets

Power Temp Systems' power module control cabinet centralizes critical power management functions, making it ideal for data centers where control, reliability, and efficiency are paramount. By integrating key components like the generator main controller, voltage regulator, and battery charger into a single, easy-to-install unit, it streamlines operations and ensures seamless power distribution in mission-critical environments.

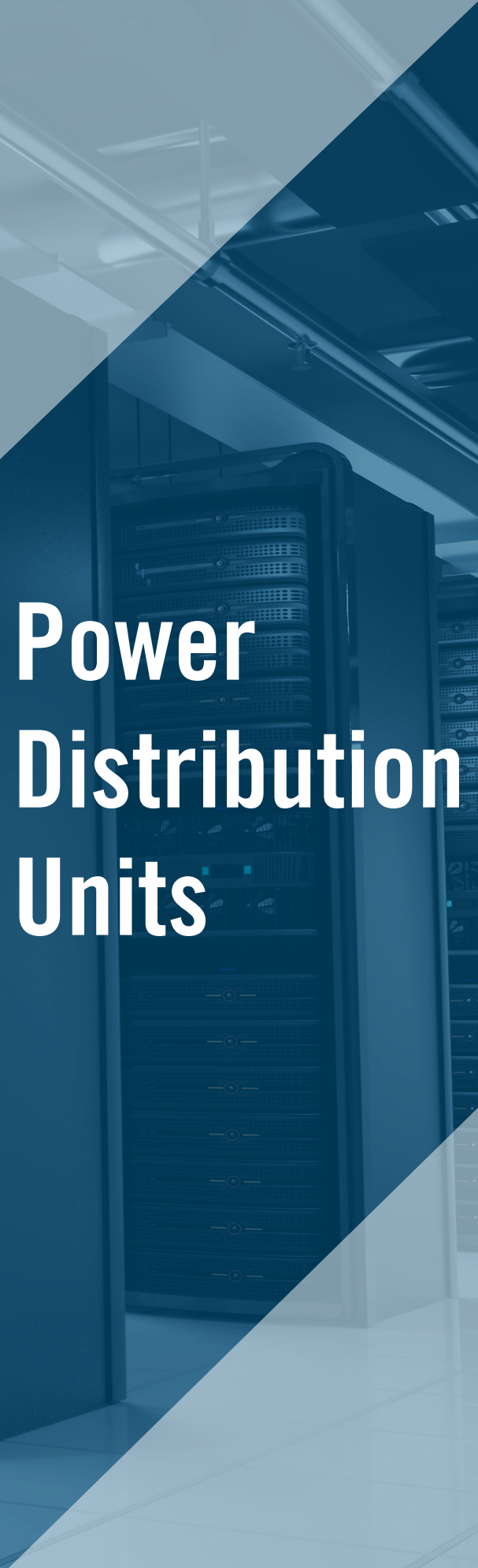
Standard Features

- Integrated control cabinet with generator main controller, voltage regulator, battery charger, and engine speed controller (for non-ECM engines)
- Deep Sea 8610 Synchronizing & Load Sharing Controller included
- Durable grey NEMA powder-coated aluminum enclosure
- Available in 600–3000A sizes
- Custom patented T-slot output bus with smart lugs and Series 16 Cam-Lok™'s for quick connects
- Supports multiple voltages
- Shore power inlets for engine block heater, battery charger, and more

Optional Features

- G8 Series Deep Sea controller for advanced paralleling
- Deep Sea 7310/20 & 7410/20 for non-parallel and/or standalone setups
- Optional controllers available (ComAp, Basler, Deif, etc.)
- Fuel transfer pump circuitry available for generators with external tanks (maintains 20%–80% levels for prime power)
- Custom enclosure colors available upon request





Power Distribution Units

Overview

Power Temp Systems' power distribution unit (PDU) offers seamless power isolation, precise voltage transformation, harmonic mitigation, and voltage regulation, along with versatile distribution options to meet diverse operational needs. Designed to withstand the rigors of varying environments, this PDU provides reliable and safe power distribution, making it an ideal choice for data centers.



Power Distribution Units (PDUs)

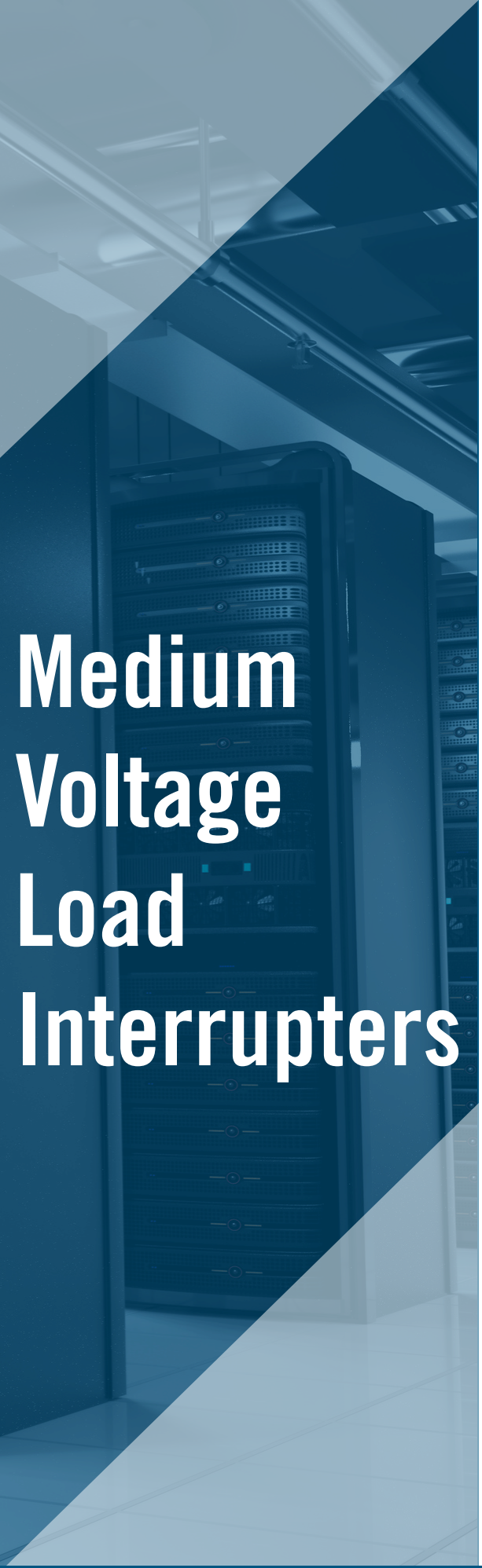
Standard Features

- Front-access design with main and output breaker integration (main input circuit breaker in sidecar if >750 kVA and fixed or plug-in output subfeed breakers up to 600A) Standard welded-copper busbars and a 200% rated neutral for high reliability and safe handling of harmonic-rich loads
- Standard K9 or K13-rated transformer for reliable performance with non-linear loads
- Supports multiple output configurations
- Modular design for space saving installations
- Flexible cable entry standard monitoring, color touchscreen, Modbus/SNMP support, and alarm capability

Optional Features

- 80% or 100% ratings for main circuit breaker input, top or bottom cable landing for main circuit breaker input
- Advanced, color touchscreen monitoring with revenue-grade metering, Modbus TCP/IP, SNMP, and browser access — ideal for remote monitoring, alerts, and analytics
- Multi-output transformer, field-configurable transformer with selectable output voltages (e.g., 208/120V, 415/240V, 480/277V)
- Integrated surge protection device (SPD) rated for 100 kA or 200 kA (UL 1449 Type 2) for protection from transients and lightning-induced surges on both input and output sides
- Manual dual PDU with interlock key transfer
- Side car with high-amp breakers (optional side-mounted cabinet for PDUs over 750 kVA)





Medium Voltage Load Interrupters

Overview

Ensure reliable power management in your data center with Power Temp Systems' load interrupters. Our rugged load break switches deliver dependable solutions for safely managing power interruptions and maintaining system integrity. With expert design and quality craftsmanship, our load interrupters help keep your data center's power systems running smoothly and efficiently.



Medium Voltage Load Interrupters

Standard Features

- 5kV, 200 Amp
- 5kV, 15kV, or 34.5kV – 600 or 1200 Amp
- BIL ratings up to 150kV
- Switch viewing window
- Mechanically interlocked fuse access door
- Available as fused or non-fused
- Plated terminals
- Structural steel welded base
- Internal ground bus
- Nema 1 & 3R – Available in stainless steel



Medium Voltage Vacuum Circuit Breakers

Overview

Manage power interruptions reliably in your data center with Power Temp Systems' vacuum circuit breakers. Engineered for efficiency and durability, our circuit breakers deliver dependable performance to protect and control your critical power infrastructure. Trust our expertise and quality workmanship to ensure consistent and uninterrupted power system operation.



Medium Voltage Vacuum Circuit Breakers

Standard Features

Medium Voltage (MV) SWG Products

- MV-Arc resistant SWG
- MV-ATS (automatic transfer switch)
- MV metal clad SWG
- Load interrupter SWG
- MV motor control
- UL certifications:
 - IEEE C37.20.7
 - UL1008A
 - IEEE C37.20.2
 - IEEE C37.20.3



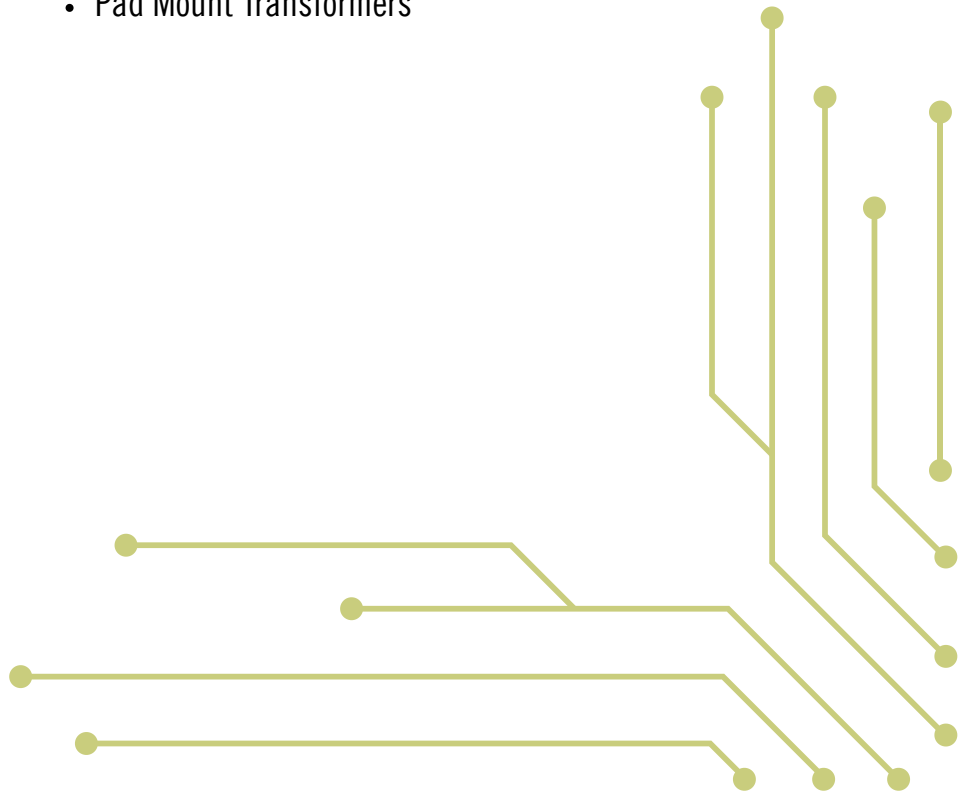
Medium Voltage Transformers

Overview

Power Temp's medium voltage transformers (11kV to 38kV), available up to 12MVA ONAN, deliver dependable power distribution for data centers by ensuring voltage stability, reducing energy loss, and optimizing operating costs. Engineered for high performance, safety, and longevity, these transformers support the demanding power needs of modern data facilities. Eco-friendly configurations are also available to align with data centers' sustainability and ESG goals.

Applicable Equipment

- Power Substation Transformers
- Pad Mount Transformers



Power Substation Transformers

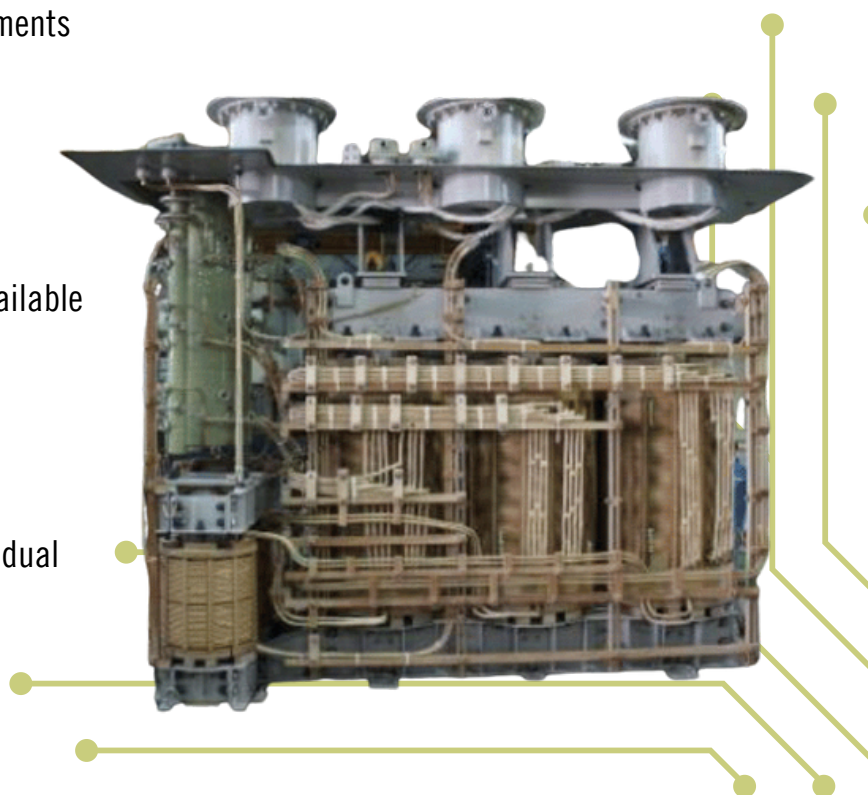
In data centers, where uptime is non-negotiable, Power Temp Systems' substation transformers deliver the reliability and performance needed to keep operations running without interruption. Built to exceed industry standards, each unit is engineered by experienced professionals with a focus on durability, customization, and long-term efficiency, because even a moment of downtime can mean major losses.

Standard Features

- Designed, built, and tested to meet the latest industry engineering standards
- Outstanding performance and reliability record
- Suitable for challenging and customized applications
- Engineered by highly trained professionals with extensive experience
- Customizable designs for specific project requirements

Specifications

- **Rating:** Up to 40MVA
- **Phase:** Three-phase and single-phase options available
- **Oil Type:** Mineral oil, FR3 (vegetable oil), BT-300 (vegetable oil)
- **Frequency:** 60Hz and 50Hz options
- **Primary voltage:** Up to 230kV, including variable dual high voltages
- **Secondary voltage:** Up to 34.5kV



Pad Mount Transformers

Power Temp Systems' pad mount transformers provide reliable, efficient power distribution for data centers. Designed for both permanent and portable setups, these single-phase and three-phase units can be customized to meet specific site requirements. Built with a focus on safety, durability, and performance, they help ensure continuous uptime and operational efficiency.

Standard Features

- Four lifting lugs for easy installation
- Bolted-on terminal compartment with removable front sill
- Hinged, lift-off cabinet doors for convenient access
- Steel high/low voltage compartment barrier for enhanced safety
- Five-legged core/coil assembly for optimal performance
- NEMA safety labels for clear hazard communication

Specifications

- **Rating:** Up to 12MVA ONAN
- **Phase:** Three, single
- **Oil type:** Mineral oil, FR3 (vegetable oil), BT-300 (vegetable oil)
- **Frequency:** 60Hz, 50Hz
- **Primary voltage:** 2400V to 34500V (including various dual high voltages)
- **Secondary voltage:** 230V to 690V
- **Winding material:** Aluminum & copper
- **Standards compliance:** ANSI/IEEE, NEMA, IEC, CSA, AS, Customized Standards, UL





We look forward to speaking with
you about your next project.

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