

Power Distribution Units

Introducing Power Temp Systems' latest Power Distribution Unit (PDU), engineered to deliver exceptional performance for applications requiring 150 kVA to 1250 kVA. This PDU features a modular design that ensures a compact and robust solution for efficient power management. It 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 various environments, this PDU provides reliable and safe power distribution, making it an ideal choice for industries such as data centers.

Features & Benefits:

- **Modular Design:** Optimizes space without compromising capacity, ideal for high-density power environments
- **Multi-Output Transformer Option:** Allows for on-site voltage reconfiguration
- **Advanced Monitoring:** Integrated touchscreen display with remote access via Modbus and TCP/IP protocols enables real-time visibility and remote system oversight, enhancing operational control and responsiveness
- **Surge Protection Option:** Safeguards critical equipment against transient events
- **Configurable Power Management:** Customizable circuit breakers offer tailored solutions to meet specific facility requirements
- **Front Access Design:** Streamlines installation and maintenance, reducing required service clearances
- **Scalable Construct:** Ensures reliable, adaptable performance for evolving facility demands



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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)

Preliminary specifications can be found in the table below.

Ratings	Specifications
kVA rating	150 kVA - 1250 kVA
Input	3-phase, 3-wire plus ground
Input voltage	@ 50 Hz: 380V - 415V @ 60 Hz: 600, 480 or 208V
Output	3-phase, 4-wire plus ground
Output voltage	@ 50 Hz: 380/220, 400/231, 415/240VAC @ 60 Hz: 600/346, 575/332, 480/277, 415/240VAC or 208/120VAC
Operating temperature	ambient 0°C to 40°C
Relative humidity	0% to 95% non-condensing
Altitude	≤ 6,600 ft.
50 Hz operating range	47-53 Hz
60 Hz operating range	57-63 Hz
Storage temperature	ambient -10°C to +40°C