

Data Center Gen-II PDU

DETAILED SPECIFICATIONS

Introducing the cutting-edge C&C Power Gen-II Power Distribution Unit. Engineered to meet demands of the modern data center, the AC PDU boasts advanced features with robust capabilities to ensure efficient power distribution with comprehensive monitoring that is essential for optimal data center performance.



Enclosure

- **Dimensions:**
 - 400-600kVA = 56.0" W X 48.0" D X 84.0" H
 - 225-350kVA = 54.0"W x 42.0"D x 84.0"H
- Front access via double doors to all controls and main circuit breaker
- Access to output circuit breaker handles located in a dead front panel behind the front cabinet doors.
- Fanless, convection cooled design
- Removable side panels and hinged controls panel access for interior access
- Top entry/exit standard.
(Bottom access optional)
- Door mounted intuitive 7in touch screen color display.
- Local EPO button on door

Transformer Specifications

- 225-600kVA
- Primary Voltage: 600 or 480 VAC Delta
- Secondary Voltage: 415, 400, 208 VAC Wye
- K-9 standard (K4, K13, and K20 optional)
- Double Shielded, longitudinal and transverse
- Copper Wound (Aluminum optional)
- Inrush current: not to exceed 10x
- U.S. DOE 10 CFR Part 431 compliant with 2016 efficiency guidelines
- Temperature Rise: 150°C
- Transformer Insulation: 220°C (class R)
- Temperature Alarm at 180°C and 200°C

Distribution

- Qty. 4 up to 600A compartmentalized outputs for landing of new loads without deenergizing the PDU.
- Qty. 6 up to 600A outputs
- Qty. 8 up to 225A outputs
- Standard breakers are 100% Electronic Trip LSI. (other breaker trip types available)

Monitored Power Parameters

- Three-Phase Line Voltages (RMS), Line-To-Line
- Three-Phase Load Voltages (RMS), Line-to-Line
- Three-Phase Load Voltages (RMS), Line-to-Neutral
- Load Phase Currents (RMS)
- Total Load Real Power (KW) and Apparent Power (KVA)
- Load Real Power (KW) and Apparent Power (KVA) per phase
- Total and Per Phase Load Power Factors (KW/KVA)
- Power Demand (KW)
- Load Energy in KW Hours (Power Versus Time)
- Load Neutral Current
- System Ground Current
- Line Frequency
- Load Voltage Total Harmonic Distortion (THD)
- Load Current Total Harmonic Distortion (THD)
- Load Voltage and Current Individual Odd Harmonics (3rd through 15th) measured and displayed
- Phase Rotation
- Isolation Transformer Over-Temperature Threshold

Alarms

- **With min/max settable limits:**
 - Line (P – P) Voltage
 - Load (P – P) Voltage
 - Load (P – N) Voltage
 - Line Frequency
- **With settable warning threshold & min max values:**
 - Total Real Power (KW)
 - Total Apparent Power (KVA)
 - Total Load Power Factor
 - Phase Real Power (KW)
 - Phase Apparent Power (KVA)
 - Phase Power Factor
 - Phase Current
 - Subfeed Current
 - Ground Current
 - Maximum Voltage THD
 - Maximum Current THD
- **With preset values:**
 - Transformer Thermal Warning (180°C)
 - Transformer Over-Temperature (200°C)
 - Phase Rotation Sequence (ABC or ACB)
 - Phase Loss
 - Auxiliary User Designated Alarm Dry Contact Inputs (6)
 - Door Open
 - Load Side SPD Fault

Surge Suppression

- 50-200kA SPD on Transformer Secondary

Communication Methods

- Alarm/Message log via display
- Modbus TCP
- SNMP Version 1, 2, and 3

Standards and Certifications

- UL Listed to UL 62368-1, 3rd Edition
- CAN/CSA C22.2 No. 62368-1:19 3rd Edition
- IEC 61557-12 Class 0.5 revenue grade metering
- Compliant with the limits for a Class A digital device, pursuant to FCC Part 15, Subpart

