

Data Center Gen-II PDU

225-600KVA POWER DISTRIBUTION UNIT

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.



Product Overview

The Data Center PDU 225-600kVA Power Distribution Unit redefines power management in data centers. It offers innovative features like optional compartmentalized output and a hinged control panel for easy transformer access. Safety is ensured with an isolated control panel for low voltage modules. An alarm simulator streamlines system testing, improving efficiency. Maintenance is hassle-free, requiring no side access and just 6 inches of rear clearance, setting a new standard for space optimization.

Key Features:

- **Input and Output Voltage Flexibility:**

The PDU is designed to accept an input voltage of 600 or 480VAC 3Ø/3W, providing a versatile solution for various power configurations. It delivers an output voltage of 480/415/240/208VAC 3Ø/4W, catering to diverse equipment requirements.

- **Dual Electrostatic Shielded Transformer:**

Equipped with a dual electrostatic shielded transformer, this PDU ensures stable and reliable power distribution, safeguarding critical equipment from voltage fluctuations and electrical disturbances.

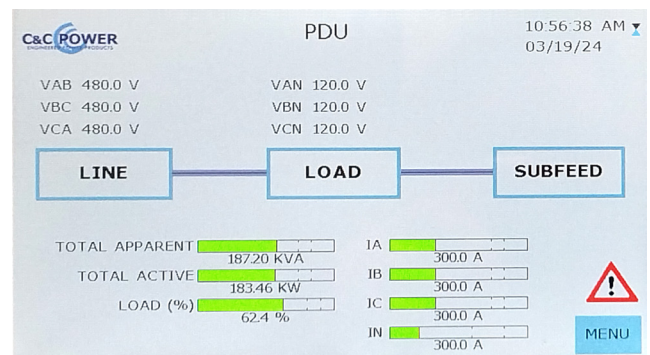
- **Wide Range of Transformer Sizes:** The PDU offers transformer sizes ranging from 225-600KVA, allowing for flexibility to meet all power needs and accommodate varying data center setups. The PDU also meets the Department of Energy standard. U.S. DOE 10 CFR Part 431 compliant with 2016 efficiency guidelines

- **High Sub Feed Breaker Capacity:**

Supporting a maximum of (4) 600A with compartmentalized, (6) 600A, (8) 250A sub feed breakers, the PDU enables efficient distribution of power to multiple equipment racks, enhancing flexibility and manageability.

- **Advanced Power Monitoring System:** The PDU's Power Monitoring System provides real-time detection and reporting of alarm conditions. Threshold values for alarms are programmable, offering customizable alerts tailored to specific requirements.

- **Intuitive User Interface:** Monitor system alarm status conveniently on the LCD display, ensuring quick and easy access to vital information. Additionally, SNMP traps or Modbus TCP protocols facilitate seamless integration with existing monitoring systems.



- **External Alarm Indicator Support:** Two (2) programmable customer relay outputs allow for the connection of external alarm indicators, enhancing visibility and facilitating timely response to critical events.

About C&C Power

Established in 1993 in Glenview, Illinois, C&C Power, Inc. emerged as a family and solution oriented electrical equipment manufacturing company. Founded on the principles of quality, performance, safety, and reliability, C&C quickly became a leader in the industry. All engineering processes are handled in-house, including mechanical, electrical, and software domains. C&C Power holds 20 patents, a testament to our unwavering commitment to innovation. Our specialities lie in Battery Systems, Power Distribution, UL 891 AC Switchgear, UPS Peripherals, and Telecommunication Equipment. We operate from our cutting-edge 230,000 Square foot facility in Carol Stream, Illinois where we combine state-of-the-art technology with personalized solutions.

Data Center Gen-II PDU



Unique Features of Our PDU

- **Compartmentalized Output Breakers:**

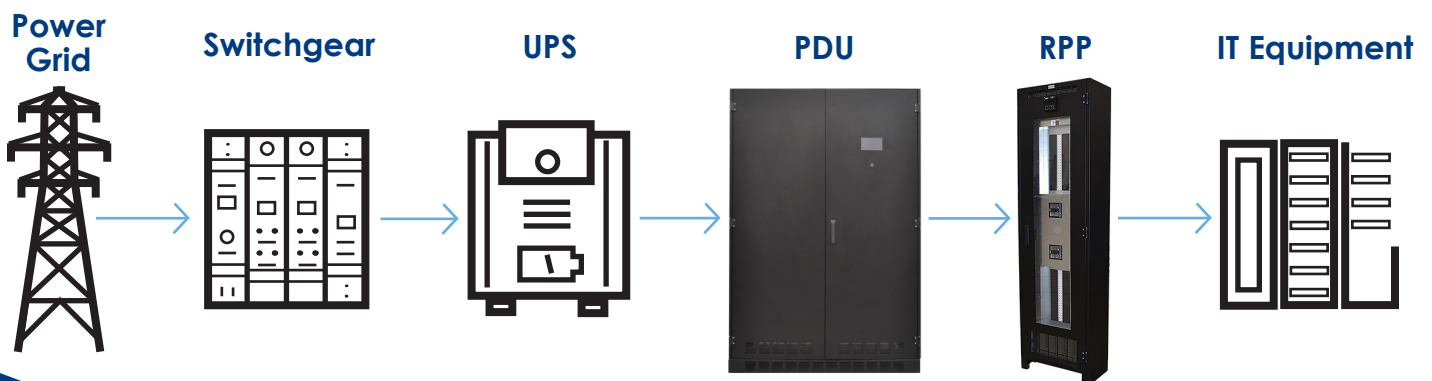
This innovative feature allows contractors to safely land a new feed without the need to de energize the entire system. By compartmentalizing the output breakers, users can access the designated area to connect new feeds without exposure to dangerous high voltage parts.



- **Hinged Control Panel:** Our PDU incorporates a hinged control panel, facilitating easy access to the transformer compartment. Unlike traditional designs that require side access, this feature streamlines maintenance tasks, saving time and effort for users.

- **Isolated Control Panel:** With a focus on safety, our PDU's control panel segregates high voltage components from low voltage ones. Technicians can service most controls without the need for system shutdowns or exposure to hazards, ensuring efficient and secure maintenance procedures.
- **Alarm Simulator:** Built-in to our software is an alarm simulator, simplifying the testing of communication between the PDU and the building management system. Unlike competitors' products where alarm settings need adjustment to trigger alarms, our PDU allows for easy testing of every alarm with a simple click, ensuring comprehensive validation without compromising normal alarm settings.

Flow of Power



Electrical

kVA Rating	Up to 600kVA
Input	Three phase, 3-wire plus ground
Input Voltage	600VAC or 480VAC
Input Frequency	60Hz
Output Voltage	480/415/240/208VAC
Operating Conditions	
Operating Temperature	0°C to 40°C (32°F to 104°F)

Transformer (other specifications are available)

Transformer Ratings	K13 Standard (K4, K9, K20 Available)
Transformer Material Type	Copper Wound (Aluminum Available)
Temperature Rise	150°C
Insulation Class	220°C
Temperature Alarms	180°C Warning / 200°C Critical

Specs

Display	7.0" LCD Display Screen
Size: 225 - 350kVA	54"W x 42"D x 84"H
Size: 400 - 600kVA	56"W x 48"D x 84"H