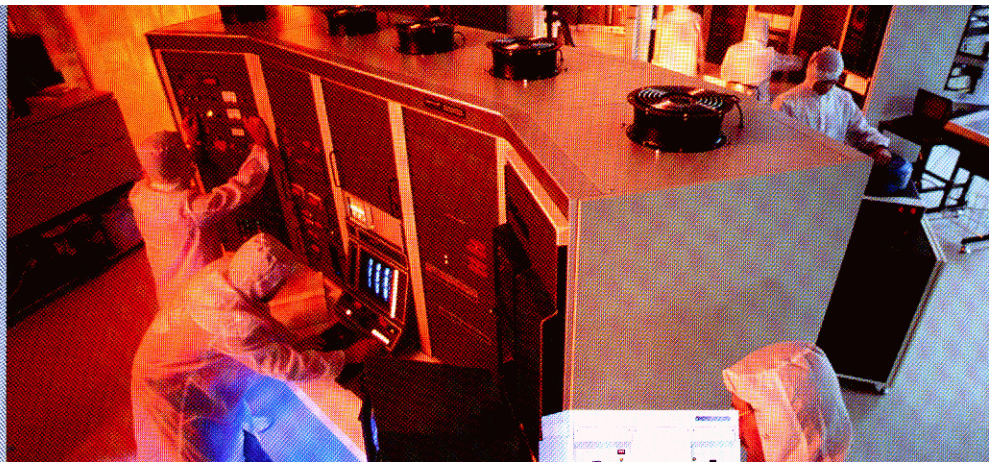
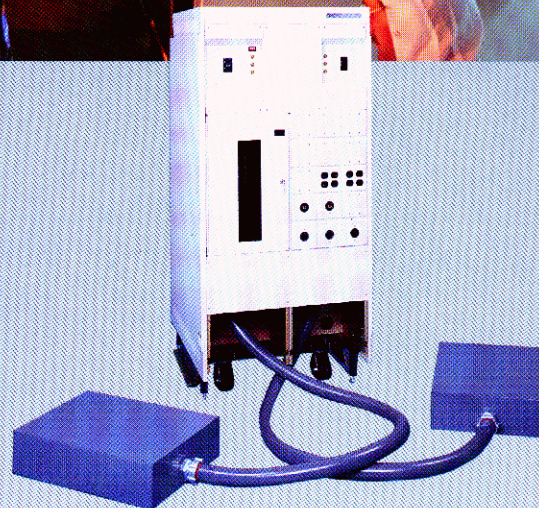


# CD Series

22 - 100 KVA, Three-Phase  
50/60 Hz.



## LoZac™



## Specify for Low-Impedance Power Conditioning and Distribution

LoZac™ CD Series conditioners are ideal as the "zone power source" for centralized, microprocessor-supported automation systems. Such applications typically involve one or more discrete processors plus peripherals — each requiring its own conditioned electrical service.

By including breaker panels with sufficient pole capacity to support diverse critical loads, LoZac CD Series conditioners eliminate your system's requirements for fixed distribution panels. Furthermore, by integrating power conditioning with distribution functions, CD conditioners dramatically simplify relocating, reconfiguring and expansion. As a result, the involvement of electrical contractors and building electricians is reduced.

LoZac CD Series conditioners provide the most complete noise reduction in the industry. They do this while maintaining low output impedance — delivering the **current**

**on demand** required by today's universally-utilized switch-mode power supplies. This ensures adequate energy transfer and accurate, reliable performance.

The following traditional technologies offer inferior performance in current systems for the reasons shown:

Ferroresonant (constant voltage) — high transfer impedance and tendencies toward instability.

High isolation technology — high transfer impedance.

Surge Suppression — uncertain useful life and incomplete noise protection, especially in the Common Mode.

### **FIVE-YEAR WARRANTY**

All LoZac low-impedance conditioners are designed and manufactured in the U.S. and backed by our unmatched five-year warranty.

**ONEAC®**  
THE CURRENT SOURCE™

# SPECIFICATIONS

# CD SERIES

**Frequency** 50/60Hz.

**Load Power Factor** 0.3 leading to 0.3 lagging.

**Load Regulation Response Time** <2 milliseconds for a 50% change in load.

**Interruption Response Time** Output voltage will track input voltage in less than 2 milliseconds at power-off and power-on for single-cycle asynchronous notch.

**Distortion** <1% THD added into a resistive load.

**Protection** Circuit Breaker.

**Noise Rejection-Isolation** With unit under power, and ANSI/IEEE C62.41 Category A pulse applied either normal or common mode at the input, the noise output voltage will be less than 10v normal mode, and less than 0.5v common mode in all four quadrants (CM-NM, NM-NM, CM-CM, NM-CM) using Keytek 711A/J (or equivalent) surge generator and low voltage, high-sensitivity isolated probe.

**Efficiency** 98% at rated output.

**Surge Voltage Withstand Capability** Tested while powered, to ANSI/IEEE C62.41 Category B, both Ring Wave and Impulse (Formerly IEEE 587-1980). Category B (Ring Wave) — 6000v/500A, 0.5μsec. rise time, 100kHz decay. Category B (Impulse) — 6000v/3000A, 1.2 x 50μsec. and 8 x 20μsec. voltage/current surge.

**RF 50 Ohm Insertion Loss** Line to load and load to line:  
400kHz to 4MHz-50 dB Typical  
100kHz to 10MHz-40 dB Typical  
30kHz to 3MHz-30 dB Typical

**Cooling** Convection

**Adjustments** None

**CD Series Overload Capability** All units will typically tolerate without degradation 10 times rated output for 0.5 cycle, 5.5 times rated output for 1 second, and 3.5 times rated output for 5 seconds.

Model	CD31200	CD31300	CD31500	CD31750	CD31810	CD311000
Load Current Rating (Amps)	60A	80A	150A	200A	225A	278A
Output Rating (KVA)	21.6	28.8	54	72	81	100
Standard Input Voltage(s)	190/200/208/240/380/400/415/480/600v, 3-φ Delta	190/200/208/240/380/400/415/480/600v, 3-φ Delta	190/200/208/240/380/400/415/480/600v, 3-φ Delta	190/200/208/240/380/400/415/480/600v, 3-φ Delta	380/400/415/480/600v, 3-φ Delta	380/400/415/480/600v, 3-φ Delta
Standard Output Voltage(s)	208/120 3-φ Wye*	208/120 3-φ Wye*	208/120 3-φ Wye*	208/120 3-φ Wye*	208/120 3-φ Wye*	208/120 3-φ Wye*
Input Termination	Hard-Wired	Hard-Wired	Junction Box	Junction Box	Junction Box	Junction Box
Output Termination	Hard-Wired	Hard-Wired	Hard-Wired	Hard-Wired	Hard-Wired	Hard-Wired
Shipping Weight (lbs.)	865	965	1586	1886	2050	2300
Floor Footprint (Square Inches)	611	611	1116	1116	1116	1116
BTU Load/Hr. (80% Load)	1475	1967	3688	4918	5200	5800
1-KHz Forward Transfer Impedance (Ohms)	<0.6Ω	<0.5Ω	<0.25Ω	<0.2Ω	<0.2Ω	<0.2Ω
Available Circuit Breaker Poles	42	42	42**	42**	42**	42**
Maximum Conduit Landing Configuration	24 @ 0.5"	24 @ 0.5"	80 @ 0.5"	80 @ 0.5"	80 @ 0.5"	80 @ 0.5"
Width (Inches)	27.0	27.0	30.5	30.5	30.5	30.5
Height (Inches)	48.5	48.5	68.0	68.0	68.0	68.0
Depth (Inches)	22.0	22.0	36.0	36.0	36.0	36.0

All specifications subject to change without notice.

For other termination and voltage combinations, contact your ONEAC distributor.

\*Optional Version is with 415/240v, 3-φ Wye Output.

\*\*Optional Versions available with up to 84 circuit breaker poles.

Pronounce Us Oh·knee·ak  
Remember Us #1ac

### WARRANTY

ONEAC warrants its products to be free from defects in materials and workmanship for a period of five years. This warranty is limited to repairing or replacing, at ONEAC's option, any defective component, circuit board or module contained within the product only when it is returned with an ONEAC Return Material Authorization (RMA) number to ONEAC or to an ONEAC-designated repair facility. In all cases shipping charges to and from ONEAC or the ONEAC-designated repair facility are at the customer's expense.

Certain modules or peripherals included with the product but not manufactured by ONEAC, including but not limited to batteries or battery packs, are warranted for ninety days or to the extent of the manufacturer's warranty, whichever is longer.

This limited warranty does not cover any losses or damage resulting from shipment to or from the customer, or from improper installation, environment or abuse, or from any modifications, adjustments or repair by other than ONEAC-authorized personnel.

**EXCEPT AS SET FORTH HEREIN AND EXCEPT AS TO TITLE, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR ANY AFFIRMATIONS OF FACT OR PROMISES BY ONEAC WITH REFERENCE TO THE PRODUCTS OR THEIR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL ONEAC BE LIABLE FOR LOST PROFITS, GOODWILL OR ANY OTHER SPECIAL OR CONSEQUENTIAL DAMAGES.**

# ONEAC®

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800-327-8801

For more information  
or for the name of  
your local distributor/dealer, call  
800-243-4543