VOLTAGE REGULATOR: LC SERIES

ADVANCED POWER PROTECTION FROM VOLTAGE FLUCTUATIONS

PROTECTING YOUR ELECTRICAL LOADS

Today's sensitive computer, industrial and medical equipment all require reliable, high quality power. Power line noise in the form of oscillating transients and voltage spikes account for nearly 90% of all power disturbances that affect computer and medical operations. The LC Series filters this noise to provide clean, regulated power to our sensitive equipment. PDI can accomplish this using the industry's smallest footprint.

UNINTERRUPTED AUTO-BYPASS

The LC Series automatic uninterrupted bypass feature enhances reliability and adds redundancy. Any disruption to the regulation circuit automatically activates the internal bypass. The bypass maintains filtered, unregulated output power to the load, thus preventing system downtime. This feature can be used to perform maintenance on the unit.

TIGHT REGULATION FOR CRITICAL LOADS

The PDI line of voltage regulators can increase the performance and life of your equipment by protecting it from oscillating transients and voltage spikes. The standard unit regulates the output voltage to ±4%. The optional 2% regulation circuitry tightens the voltage regulation even further. To ensure maximum performance, all PDI units regulate each phase independently.

OUTPUT OPTIONS

The PDI PowerPak Voltage Regulator Technology offers superior performance and protection for your commercial and industrial applications. Manufactured in three different configurations to fit the needs of the equipment you are interfacing with, PDI offers the most complete line of Line Conditioners in the industry. The ±4% Line Conditioner, one of our two line-to-neutral (L-N) options, is normally paired with industrial processing and digital processing equipment. The ±2% Line Conditioner, our second line-to-neutral (L-N) option, is normally paired with medical imaging equipment. The third option, the ±1% Balanced Load Line Conditioner, is a line-to-line (L-L) voltage regulator which complements the needs of the latest medical imaging equipment.

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SPECIFICATIONS

Ratings

- kVA Ratings: 15-225 kVA
- Input: 3-phase, 3 wire plus ground
- Input Voltage @ 50 Hz: 415 or 380V
  @ 60 Hz: 600, 480 or 208V
- Output: 3-phase, 4 wire plus ground
- Output Voltage @ 50 Hz: 415/240 or 380/220V
  @ 60 Hz: 600, 480 or 208/120V
- Output Regulation: ±4% L-L, optional ±2% L-N, ±1% L-L
- Harmonic Distortion: none added

Features

- Independent regulation of each phase
- Automatic uninterrupted bypass
- Flexible distribution
- Copper wound construction
- Natural convection cooling
- Oversized neutral for non-linear loads
- Common mode noise protection
- Transverse mode noise protection
- Operating Efficiency: 98% typical
- Listed to UL 1950, CSA Certified
- MODBUS RTU communications

Enclosure

- NEMA 1
- Removable front, side and rear panels

Operating Conditions

- Operating Temperature: ambient 0°C to 40°C
- Storage Temperature: ambient -10°C to +40°C
- 60 Hz Operating Range: 57-63 Hz
- 50 Hz Operating Range: 47-53 Hz

PDI

creating the perfect wave

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25 years

LC SERIES OPTIONS

2% Output Voltage Regulation

Enhances the standard ±4% output voltage regulation to the industry's tightest regulation at ±2%. ±2% is available in a line to neutral (L-N) configuration. ±1% is available in a line to line (L-L) configuration.

Transient Suppression Network (TSN)

An integrated system engineered to meet ANSI/IEEE category C standards for transient voltages and surge currents.

Lightning Arrestor/Surge Suppressor

Protects the major insulation of the system magnetics.

Distribution Panelboards/Sub-Feed Breakers

Customized distribution configurations meet the demands of any facility.

Applications

MEDICAL

- Oncology Treatment Systems
- Imaging Systems

DATA PROCESSING

- Computer Systems and Peripherals
- Bypass or Output of UPS

INDUSTRIAL

- Motor Control Centers
- Variable Frequency Drives

COMMERCIAL

- Lighting
- Sound Systems
- Flight Simulators