

ALDONEX INC

MANUFACTURER OF QUALITY
DC AND AC POWER SUPPLIES SINCE 1967

SCR CONTROL (THYRISTOR)



Manufactured and Developed in the USA

Aldonex has over 50 years in the DC & AC Power Supply Industry! With this experience we are able to deliver a quality product that is proven and will last! When you want a workhorse that is reliable and easy to maintain, SCR technology is the way to go! We have custom filtering available for any application. All of our circuit boards are microprocessor based resulting in unparalleled precision, accuracy, and reliability.

- Available in Single Phase (110VAC-240VAC 50/60HZ)
- Available in Three Phase (208VAC-600VAC 50/60HZ) (higher voltages upon request)
- Applications available up to 500kW (>375kW will be in parallel on some applications)
- Primary and Secondary SCR designs
- 5% Ripple at full load (optional/custom filtering available)
- All Control Boards are microprocessor based for the highest accuracy!
- All Control Boards are conformal coated (MIL-1-46058 or MIL-V-173)
- Constant Current and Constant Voltage (crossover regulation of 0.5%)
- Air or Water Cooled
- Self-Contained or Remote Controlled
- PLC Interface Available (0-5VDC, 0-10VDC, 4-20mA)
- All of our power supplies are designed for continuous duty at 40° C (high temp packages available)
- Aldonex power supplies utilize soft-start technology and thermal protection
- Three Phase models include Phase Monitoring/Protection
- Custom and Modular Designs available



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Bellwood, IL 60104



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RECTIFIER ELEMENTS

Aldonex power supplies utilize over-sized SCR and diode assemblies. Assemblies are over-sized approximately by 45% or more. This will allow them to withstand any excessive surge in current. By utilizing a multi-cell semiconductor design that is so closely balanced our semiconductors do not require any fuses or balancers thus cutting out costly replacements and downtime.

POWER TRANSFORMER

Our transformer core consists of grain oriented silicon steel lamination. The primary and core are separated by a solid performed silicon impregnated insulation coil form. This minimizes the risk of primary to core short circuits. The transformer secondary will be a heavy duty copper winding resulting in the greatest rigidity. Current in windings is limited to a density of 600 circular mills per ampere. The complete transformer assembly is dipped in the highest quality insulating varnish. This process results in a quite unit which will withstand the harshest shop environment while operating cool under full load.

CONTROLS

All control equipment including the Main Contactor, Motor Contactor, Control Transformer, SCR Gate Drive, CV/CC Control Board are located behind an easy to access panel. We strive to isolate these components into a dust free environment free of potentially corrosive moisture entry. Operator Controls are furnished in a separate enclosure for Remote Operation. Start/Stop push buttons, Constant Voltage. Constant Current controls, DC Volt Meter and DC Amp Meter are typically mounted on a hinged panel.

STANDARD TECHNICAL DATA

AC Input Voltage

Output Current

Output Voltage

Control

Ripple

Duty Factor

Operating Temp

1x 110VAC-240VAC 50/60HZ

3X 208VAC-690VAC 50/60HZ

Up to 15000ADC (>15000ADC In Parallel)

Up to 400VDC

Constant Current/Voltage Control (0.5% crossover regulation)

5% Ripple at 100%KW (optional filtering resulting in 5% or less 20-100%KW)

100% (can run 24/7 365 days a year)

40° C (optional high temp/altitude packages available)

OPTIONS

- Amp Hour/Minute/Second Meter (pump control optional)
- Digital Meters (IP65 Rating. Accuracy is 1% or better)
- Set-point Meter
- Automatic Ramp
- Step Ramping
- Cut-Off Timer
- Alarm
- Slow Pulse (Low Freq. Pulse) 1s-5940
- Data Logging
- PLC Interface (0-5VDC, 0-10VDC, 4-20mA)

OPTIONS (Continued...)

- PLC Start/Stop
- Custom Dry Contacts
- "EZ" Controller (see additional literature)
- Periodic Reversing (Manual or Automatic)
- Filter Choke (reduce AC ripple)
- Built in disconnects and many other protection options
- Data Logging
- Protection Grade up to NEMA 4X
- We welcome custom controls!



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