



- Available in Three Phase (208VAC-600VAC 50/60HZ) (higher voltages upon request)
- Applications available up to 250kW (12,000ADC Max)
- Applications available up to 30VDC (higher voltages available upon request)
- 5% Ripple throughout the output range (optional filter resulting in <5% available)
- Can start at 0VDC (optional)
- Air or Water Cooled
- Self-Contained or Remote Controlled
- Current Trip "Limit" circuitry protects the power supply against direct short of the output bus
- Current Trip board is conformal coated (MIL-1-46058 or MIL-V-173)
- All of our power supplies are designed for continuous duty at 40° C (high temp packages available)
- Custom and Modular Designs available
- Manufactured and Developed in the USA

Aldonex can offer a full line of Tap Switch power supplies to suit your needs. We have been in the business for over 50 years and have been providing rectifiers to a variety of industries for various applications. Some of these applications are metal finishing, anodizing, electrowinning, chemicals on site and water treatment. We are one of the few manufacturers that will custom build our power supplies to suit your needs. This includes controls, components, cabinets, and modular units. We offer Powder Coated Steel, Stainless Steel, Aluminum, and Poly Pro enclosures.



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RECTIFIER ELEMENTS

Aldonex power supplies utilize oversized diode assemblies. Assemblies are oversized approximately by 45% or more in order 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 cuts out costly replacements and downtime.

POWER TRANSFORMER

Our transformer core consists of grain oriented silicon steel laminations. 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 is 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 Starter, Motor Starter, Control Step Down, and Current Trip 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, Tapsitches, DC Volt Meter and DC Amp Meter are typically mounted on a hinged panel.



*As Shown

- 4000ADC 0-24VDC
- Powder Coated Steel Cabinet
- Self Contained
- Standard Controls
- Autoformer (output starts at 0VDC)

OPTIONS

- Amp Hour/Minute Meter (pump control optional)
- Digital Meters (IP65 Rating. Accuracy is 1% or better)
- Setpoint Meter
- Cut-Off Timer
- Alarm
- PLC Interface (0-5VDC, 0-10VDC, 4-20mA)
- PLC Start/Stop
- Custom Dry Contacts
- Periodic Reversing (Manual or Automatic)
- Filter Choke (reduce AC ripple)
- Autoformer (starts at 0VDC output)
- We welcome custom controls!

STANDARD TECHNICAL DATA

AC Input Voltage	3X 208VAC-600VAC 50/60HZ (other voltages available upon request)
Output Current	Up to 12000ADC
Output Voltage	Up to 30VDC (other voltages available upon request)
Control	8 position tapswitches
Ripple	5% Ripple throughout the output range (optional filtering resulting in <5% available)
Duty Factor	100% (can run 24/7 365 days a year)
Operating Temp	40° C (optional high temp/altitude packages available)

