

# ALDONEX INC

MANUFACTURER OF QUALITY  
DC AND AC POWER SUPPLIES SINCE 1967

## TAP SWITCH CONTROL



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! We can even offer these units starting at 0VDC in position 1 with the simple addition of a built in autoformer! Aldonex Tap Switch rectifiers are the easiest of all models to maintain. This is a proven product that is built to last!

- Available in Three Phase (208VAC-690VAC 50/60HZ) (higher voltages upon request)
- Applications available up to 250kW (12,000ADC Max)
- Applications available up to 30VDC (higher voltages available upon request)
- Can start at 0VDC (optional)
- 5% Ripple throughout the operating range (optional filtering for <5% available upon request)
- Air or Water Cooled
- Current Trip "Limit" protects the power supply against direct short of the output bus
- PLC Feedback 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)
- Custom and Modular Designs available



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Bellwood, IL 60104



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### RECTIFIER ELEMENTS

Aldonex power supplies utilize over-sized 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, and Control Transformer, 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, 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

3X 208VAC-690VAC 50/60HZ  
Up to 12,000ADC  
Up to 30VDC  
5% Ripple (optional filtering resulting in 5% or less 1-100%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
- Cut-Off Timer
- Alarm
- Data Logging
- PLC Feedback Interface (0-5VDC, 0-10VDC, 4-20mA)
- PLC Start/Stop
- Custom Dry Contacts

### OPTIONS (Continued...)

- 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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