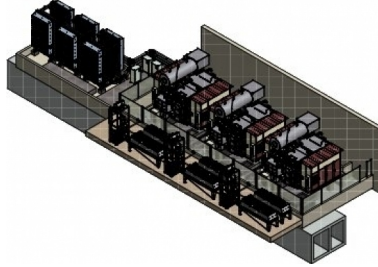




Aluminum



High Power Transformer Rectifier Systems For Aluminum Applications

Added Benefits of Power Electronic Systems Supplied by Neeltran – Robust and Reliable Power to run your 24/7 processes.

At Neeltran, we design and manufacture our own rectifier-transformers and rectifiers in the same facility for aluminum duty units. This unique capability allows for combined Full Current and Full Voltage factory testing of the transformer and rectifier in their actual configuration prior to shipment.

An experienced client requires combined testing to eliminate integration problems at the site and to assure the shortest commissioning time. This results in significant cost savings and produces the highest quality units for Booster and Compensation supplies.

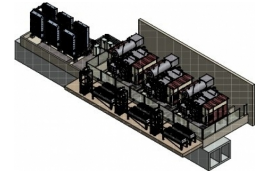
Neeltran possesses multi-industry, engineering, and manufacturing experience that helps us to be flexible and design products that meet your specific technical and safety requirements. Please call us for your aluminum smelting power supply needs.

Product Details:

- Latest safety features
- Design to all types of environments and contamination
- Remote monitoring via PLC modem
- State-of-the-art Neeltran fast response control boards with Microprocessor based controller available
- All types of PLC's available for ease of interface to customer systems
- Free Wheeling Diode
- Semiconductor Plasma Arc protection available
- Design to local environment, altitude and cooling conditions with all cooling system types available
- Multiple DC current measurement types available
- EMF, RFI and Magnetic studies available
- FEM analysis available
- Harmonic studies available
- E House style available



Aluminum



General Specifications

Standards not limited to		ANSI / IEEE / IEC
Three-phase supply voltage main by customer	Vac	to 69000
Three phase voltage on the secondary	Vac	to 2000
Maximum power	kVA	65000
Frequency	Hz	50 / 60
Rectifier Connection		Bridge or Star
Pulses		6 / 12 / 18 / 24 / 36 and more
Rectifier power section material		Aluminum or Copper
DC Current	A _{dc}	500000
DC Voltage	V _{dc}	2000
Control card type		Digital or Analog, hard wired or OPTO
Metering		Shunt / LEM / Primary CT
Rectifying elements		Thyristors / Diodes
Transformer Cooling		Oil to Water / Oil to air
Transformer Oil Type		Mineral / FR3 / Silicon
Rectifier Cooling		Deionized Water to water / Deionized Water to air
Installation		indoor or outdoor
Transformer Manufacturer		Neeltran
Rectifier Manufacturer		Neeltran
Line Up Testing Available		Combined Test at Neeltran Factory

American Superconductor

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