



# Electroquímica

## Sistemas de transformadores y rectificadores de alta potencia para la electroquímica

### Added Benefits of Power Electronic Systems Supplied by Neeltran — Robust and Reliable Power to run your processes .

Neeltran, is uniquely positioned as one of the few companies in the world that designs and manufactures its own transformer rectifiers and rectifiers. 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.

This combined testing to eliminate integration problems at the site and to assure the shortest commissioning time, resulting in significant cost savings and the highest quality units. Our rectifiers for electrochemical plants will exceed your needs.

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 for your electrochemical needs. Neeltran offers oil cooled transformer with water cooled rectifier as well as water cooled transformer with water cooled rectifier which is the lowest cost solution (green solution). Whether a traditional Oil Transformer and water cooled rectifier or an all in one, E House style. Our rectifiers for chemical plants can serve your needs.

## DC Power Supplies for Electrolysis

Markets served for electrochemical rectifiers and transformers are: Chlorate, Chlor alkali, Chlor-alkali, Chlorine, Hydrogen and all other gasses and chemicals that use electrolytic processes. Neeltran DC Power supplies are suitable for Alkaline, PEM, and Solid oxide electrolyzers in hydrogen production.

### Detalles Del Producto:

- Latest safety features
- Design to all types of environments
- Remote monitoring via PLC modem
- State-of-the-art Neeltran control boards with Microprocessor based controller available
- All types of PLC's available for ease of interface to customers systems Semiconductor Plasma Arc protection available
- Diode and SCR
- On Load Tap Changer available, in all cases including NLTC tap changer will have its own separate oil supply
- Multiple DC current measurement types available
- EMF, RFI and Magnetic studies available
- FEM analysis available System coordination study available
- Harmonic studies available
- Complete ANSI and/or IEC testing available
- E House style available
- Water cooled power supply



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### Especificaciones Generales

Fuente principal de voltaje trifásica en la primaria	V <sub>ac</sub>	up to 69000
Máxima potencia	kVA	hasta 65000
Tres tensión de fase en el secundario	V <sub>ac</sub>	hasta 1500
Frecuencia	Hz	50 / 60
NLTC u OLTC		No Carga y de cambiadores de tomas en carga
Corriente continua	A <sub>dc</sub>	hasta 200000
Voltaje de corriente continua	V <sub>dc</sub>	hasta 1100
Conexión del rectificador		Puente o Estrella
Pulsos		6 / 12 / 18 / 24 / 36 y más
Tipo de tarjeta de control		Digital o analógico, cableado o Opto.
Exactitud del Sistema de control de corriente constante		±0.5%
Enfriamiento del transformador		Oil to Water / Oil to Air
Fabricante del transformador		Neeltran
Tipo de aceite del transformador		Mineral / FR3 / Silicon
Medición		Derivación / LEM / Primario CT
PLC		Allen Bradley o Siemens, otros disponibles. Dial de módem o módem celular para el diagnóstico
Enfriamiento del rectificador		Deionized Water to Water / Deionized Water to Air
Tipo de gabinete del rectificador		Compacto / Semi / Walk in
Fabricante del rectificador		Neeltran
Material de la sección eléctrica del rectificador		Aluminio o cobre
Elementos de rectificación		Tiristores / Diodos / IGBT
Redundancia		N+X
Disponible línea de prueba		Prueba combinada en Neeltran fábrica

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