



# Heating, DC Arc Furnace

## High Power Transformer Rectifier Systems For Furnace Applications

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

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.

Markets served: Titanium, Glass, Carbon, Carbon Fiber, Scrap and Specialty.

### Product Details:

- DC reactors and low ripple available
- Latest safety features
- Design to all types of environments and contamination
- 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 customer systems
- Diode units available
- On Load Tap Changer available, in all cases including NLTC tap changer will have its own separate oil supply
- Based on specifications we can conform to ANSI, IEC, IEEE, NEMA, CSA, BS, AS, JS, CE etc...
- Design to seismic zone and altitude
- Walk-in metal or aluminum enclosures available with all types of IP or Nema



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### General Specifications

Three-phase supply voltage main by customer	V	up to 69000
Maximum power	kVA	up to 10000
Three phase voltage on the secondary	V	up to 300
Frequency	Hz	50 / 60
NLTC or OLTC		No Load and On Load Tap Changers
DC Current	A	up to 60000
DC Voltage	V	up to 300
Rectifier Connection	ANSI - IEC	Bridge or Single Way
Pulses	A	6 / 12 / 18 / 24 / 36 and more
Control card type	V	Digital or Analog, hard wired or OPTO
Accuracy of the constant current control system		±0.5%
Transformer Cooling		ONAN-ONAF-OFAF-OFWF-KNAN
Transformer Manufacturer		Neeltran
Transformer Oil Type		Mineral, FR3, Silicon
Temp class		105°C
Installation		Indoor or Outdoor
Rectifier Cooling		Deionized Water to Water / Deionized Water to Air
Rectifier Enclosure Type		Compact / Semi-walk in / Walk in
Rectifier Manufacturer		Neeltran
Rectifier power section material		Aluminum or Copper
Rectifying elements		Thyristors / Diodes / IGBT
Redundancy		N+X
Line Up Testing Available		Combined Test at Neeltran Factory

#### American Superconductor

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