

# Traction

## Neeltran's Product Offering for Traction Application

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At Neeltran, we are uniquely positioned because we are one of the few companies in the world that designs and manufactures its own rectifier-transformers and rectifiers in the same facility under one management team. This ability allows us to understand harmonics and losses very well. This gives our designers the experience to design the highest quality units available.

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.

Thanks to this capability, Neeltran is able to provide the complete substation engineered as one piece of any kind for application, tram, subway, train and monorail.

### PRODUCT DETAILS:

- Medium voltage cell
- Oil cooled and dry type transformer,
- Transformer mounted in the same cabinet as the rectifier
- DC feeder and distribution panel
- Smoothing reactor
- High Speed Circuit Breaker
- Switches
- Negative protection
- Complete substation

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## General Specifications

Three-phase supply voltage main by customer	V	up to 69000
Maximum power	kVA	up to 7000
Three phase voltage on the secondary	V	up to 2700
Frequency	Hz	50 / 60
Product Ranges not limited to		up to Class VI
DC Current	A	up to 6000
DC Voltage	V	up to 3000
Rectifier Connection	ANSI - IEC	Bridge
Pulses		6 / 12 and more
Control card type		Digital - Analog
Metering		Shunt
Transformer Cooling		Oil or Air cooled
Transformer Manufacturer		Neeltran
Transformer Oil Type		Mineral / FR3 / Silicon
Temp class		220°C
Tap changer		Off Load Tap Changer
Rectifier Cooling		Air, Forced Air
Rectifier Enclosure Type		Indoor or Outdoor
Rectifier Manufacturer		Neeltran
Rectifier power section material		Aluminum Heatsink
Rectifying elements		Diode, Thyristor
Redundancy		N+X
Line Up Testing Available		Combined Test at Neeltran Factory

### Neeltran, Inc.

+1 860.350.5964 Phone | +1 860.350.5024 Fax | 71 Pickett District Road | New Milford, CT 06776, USA  
Web: Neeltran.com | Email: sales@Neeltran.com