



Trasformer Rectifier mod. OIL

Stabilized SCR transformer rectifier suitable for outdoor installation in harsh climatic conditions.

Construction:

Made from highly resistant metallic structures:

- Galvanized Steel with epoxy paint
- Upon request, AISI 304L Stainless Steel
- Upon request, AISI 316L Stainless Steel

Operation:

- Automatic constant current
- Automatic constant potential
- Automatic constant potential with base current

Electrical Characteristics:

- Power supply from single-phase or three-phase **AC mains**
- Nominal frequency: **50 Hz** or **60 Hz**
- Maximum no-load output voltage: **50 Vdc**
- Maximum output current: see table
- Efficiency: $\geq 70\%$ at full load
- Residual ripple: $\leq 2\%$ of the output voltage at full load
- Continuous adjustment via potentiometer for:
 - Output voltage from zero to maximum value
 - Output current from zero to maximum value
 - Cathodic potential from zero to 5 V
 - Base current from zero to 25% of the maximum output current
- Variation of set parameters: $\leq 2\%$ of the set value

Analog or Digital Measurement Instruments and Devices:

- Voltmeter for measuring **output voltage**
- Voltmeter for measuring **cathodic potential**
- Ammeter for measuring **output current**
- Analog Voltmeter for **input voltage**



Adjustments:

- Output Voltage (V_u)
- Output Current (I_u)
- Conduit-Electrode Potential (V_{dp})
- Base Current (I_b)

Overcurrent Protections on Circuits:

- AC input to the power supply via **magneto-thermic differential switch**
- DC output from the power supply via **fuse**
- Input to the rectifier bridge via **fuse**
- **Surge protection** arresters
- Series **diode for protection against output polarity reversal**
- Protection against radio interference emission, single-phase or three-phase input filter



Standard Power Configurations, DC Output Current:

Model	Power Supply	Max Voltage	Max Current
L 25 – O – 50	Single phase	50 V	25 A
L 50 – O – 50	Single phase	50 V	50 A
L 75 – O – 25	Single phase	25 V	75 A
LT 25 – O – 50	Three phase	50 V	25 A
LT 50 – O – 50	Three phase	50 V	50 A
LT 100 – O – 25	Three phase	25 V	100 A
LT 100 – O – 50	Three phase	50 V	100 A

Trasformer Rectifier with different output voltages and currents can be configured and built to customer specifications for currents exceeding 300 A.