CESCOR Air Cooled Transformer Rectifier is developed for cathodic protection of marine structures including jetties, pipelines and platforms. It has been designed to comply with the most stringent industry specifications and appropriate environmental conditions where continual operational safety and reliability are paramount.

**Running conditions**

CESCOR Transformer Rectifier operates under three different running conditions:
- Constant current
- Constant potential
- Constant potential with base current.

**Technical Description**

They are capable of delivering up to a rated current of 200 A (customizable) at a selectable voltage between a maximum of 10 V DC and 25 V DC. **Ripple is lower than 5%** in any operating conditions. Their reliability and accuracy is ensured by a careful design of circuits. Particular attention has been paid to ensure safety of the operators, by means of:
- Devices for protection against direct and indirect contacts
- Power interruption to prevent electric shock upon opening of the front door
- Isolation transformer
- Adequate protection degree.
Air Cooled Transformer Rectifier

The transformer rectifier is provided with internal or external air cooling devices. The selection may be specification-derived or, if needed, come from our engineers, which are able to assist you with this decision.

In order to accommodate every possible application, we are able to incorporate a wide variety of specialized features into our transformer rectifiers, including local and remote monitoring of output voltage, current, reference electrode potentials, and remote control of output voltage and current.

**DATASHEET**

**INPUT (AC)**

- **Voltage**: 400 V ± 5%
- **Frequency**: 50/60 Hz ± 2%
- **Electrical System**: Three-Phase
- **Rated Power**: 7,200 VA

**OUTPUT (DC)**

- **Voltage**: 25 V (or 10 V selectable)
- **Current**: 200 A
- **No. Positive Output**: 1
- **No. Negative Output**: 2
- **Ripple**: < 5% of the output voltage at rated current

**OPERATING MODES**

- Constant Current
- Constant Potential
- Constant Potential with Base Current

**PANEL INSTRUMENTATION**

- **Input Analogue Voltmeter with Phase Selector**: ✓ - Switch on/off
- **Output Digital Voltmeter**: ✓ - Switch on/off
- **Output Digital Ammeter**: ✓ - Switch on/off
- **Reference Potential Voltmeter**: ✓ - Switch on/off
- **Synchronized Current Interrupter**: Allows synchronization with other T/Rs

**Test Points**

- Output voltage
- Output current (shunt 200A/60mV)
- Reference Potential

**ELECTRICAL PROTECTION**

- **Input Circuit Breaker**: ✓
- **Fuses**
  - AC side
  - Primary and secondary of transformer
  - DC side
  - Circuits fan, measurement instrumentation, indicator lights
- **Surge/Lightning Arrester**
  - AC side – DC side

**CHARACTERISTICS**

- **Dimensions (LxWxH)**: 800 x 500 x 1,800 mm
- **Protection Degree**
  - Indoor T/R: IP54
  - Outdoor T/R: IP55
- **Cooling System**: Forced air
- **Enclosure**
  - Indoor T/R: Painted steel RAL 7035
  - Outdoor T/R: Stainless steel (AISI 316)
- **Mounting System**: Resting on the floor

**COMMUNICATION**

- **Remote Control**: ✓ - prepared
- **Failure Alarm Light**: ✓ - AC

**SAFETY**

- Under Current Legislation, compliant with CEI 64-8 and CEI UNI 8