

Air Cooled Transformer Rectifier

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 \pm 5%
Frequency	50/60 Hz \pm 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
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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 ✓ - DC

SAFETY

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