Cathtect Engineering (Pty) Ltd.

Manually Controlled Cathodic Protection

Rectifiers

WHAT IT TAKES!

Page no.

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Manually Controlled Cathodic Protection Rectifiers

Cathect Engineering (Pty) Ltd is a dynamic company that strives to give our clients the absolute best in all that we do . We are able to Design, Manufacture, Supply and Install Cathodic Protection systems and materials that will take care are your Corrosion problem. Cathtect's Manually Controlled Rectifier units use the latest technology as we constantly seek innovative ways to improve our rectifiers, so that we can give our clients World Class Cathodic Protection systems and Materials.

Manually Controlled Cathodic Protection Rectifiers is an electrical system employed to impress current onto a structure through manual adjustment. It is utilised to drive the structure more negative with respect to its surroundings, affording it protection in the process. Manually controlled Rectifiers are different from Automatically controlled rectifiers because the voltage output is determined by tap settings on transformer secondary by a rotatory cam switch. Cathtect's Manually Controlled Rectifier units main function is constant voltage control and uses a diode bridge rectifier on the secondary of the rectifier. These systems are designed to withstand harsh conditions and have a long design life of 25 Years.

Benefits and Features of Cathtect's Manually Controlled Cathodic Protection Rectifiers

Benefits of Cathtect's Manually Controlled Cathodic Protection Rectifiers

- Full rotary cam switch control
- Robust
- Involves less electronics
- Long service life

Some Features of Cathtect's Manually Controlled Cathodic Protection Rectifiers

- Operating Ambient Temperature of -10 to 40°C (14 to 104°F)
- Operating Ambient Humidity 0 to 100%
- DC Stray Current Interference ± 20V DC Minimum
- AC Stray Current interference 35V AC Minimum
- 3 Phase 415V AC tolerance ± 10% supply voltage or specified by client
- Output Ripple less than 2%

**Please see the technical datasheet for all product specifications*

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Manually Controlled Cathodic Protection Rectifier Ordering Codes

Manually Controlled Cathodic Protection Rectifiers are manufactured according to power ratings. We have 4 standard Manually Controlled Rectifier Ratings: 1000W, 5000W, 3800W and 10000W. Within these power ratings, Automatic controlled Rectifiers have different maximum output voltages: 20V, 50V, 76V and 100V. Their maximum current varies accordingly.

Use the ordering code in the table provided below to select your Automatic Controlled Rectifier rating.

Automatic Controlled Rectifier Ordering Code	Power	Output Voltage	Output Current
RECM-20-50	1000W	20V	50A
RECM-50-100	5000W	50V	100A
RECM-76-50	3800W	76V	50A
RECM-100-100	10000W	100V	100A

** For Client specifications please contact us*

Manually Controlled Rectifier Enclosure Details

Our rectifier enclosures are made from 3CR12 grade steel with a powder coat paint finish. Alternatively should the rectifier be situated in a Rocla type environment, the rectifier can be mounted on an open frame. There is only one standard frame size and two different types of enclosures which range in size depending on the rating of the rectifier. Our standard frame dimensions are 1300mm x 600mm x 1000mm and is made from 30mm2 galvanized mild steel square tubing on a white powder coated chassis plate.

Types of Enclosures

1. Rectangular enclosure IP 55,56,65 & 66
2. Tall Narrow enclosure with a door in the front and the back IP 55,56,65 & 66

**Please note that each enclosure dimension is different depending on the rating, please contact us for your specifications*

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TALL AND NARROW ENCLOSURE

RECTANGULAR ENCLOSURE

* *Enclosures can be in a Canary Yellow, Orange or Grey and doors can be cut and customized to suit viewing holes or panel meters. Louvers, canopies and plinths are optional.*

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