

# SummitGroup UK

## Oil Cooled Cathodic Protection Rectifier



Our Oil Cooled Cathodic Protection Rectifiers are rugged, reliable with trouble-free long service life.

Typical cathodic protection applications for the oil cooled rectifier line include severe environmental conditions due to high humidity, dust, or other situations that would shorten the life of a standard air cooled rectifier.

The enclosures are made of 5mm thick carbon steel material. We use heavy duty transformers of over 90% efficiency with 15% over design for reserve capacity. Smooth (stepless) 0-100% DC output control is achieved by precision potentiometer / variac.

Silicon diode modules protected by surge suppressors and adequately sized breakers and fuses are used to ensure good performance and durability.

DC output meters are analog or digital depending on user requirement.

Fitted with inbuilt interrupters, it is possible to conduct pipeline diagnostic works without using external interrupters.

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Oil Cooled Cathodic Protection Rectifier  
Model: S5050AM / S5050DM  
50Volts, 50Amps



## Technical Specifications

Input Voltage	400VAC $\pm$ 10%, 50/60Hz, 3 Phase (Single Phase Options Available)
Output Voltage	0 - 50V DC
Output Current	0 - 50A DC
Output Fuse	50A Quick Acting Fuse
Short Circuit Protection	Input Breaker, Transformer Secondary Fuses (50A)
Thermal Protection	90°C $\pm$ 5°C (Heat Sink Temperature)
Efficiency	>95%
Operating Temp. Range	-30 to +60°C
Output Voltage Meter	0 - 50V DC Analog (Digital Option Available)
Output Current Meter	0 - 50A DC Analog (Digital Option Available)
Input Voltage Meter	0 - 500V AC Digital Meter.
Ingress Protection	IP 54
Dimensions	790mm X 635mm X 1500mm
Power Control Method	Silicon Diode Module
High Voltage Protection	Input Protection 600V MOV, Output Protection 75V MOV And Gas Tube
Operating Modes	Constant Voltage Continuous Interrupted
Interrupted Mode Operation	
On Time Adjustment Range	0.1 to 99 Seconds
Off Time Adjustment Range	0.1 to 99 Seconds
Oil Level & Temp. Gauge	One Gauge For Oil Level And Temperature.
Cooling Oil Quantity	Approximately 120 Liters
Warranty	2 Years (Components And Workmanship)
Design Life / Life Expectancy	>25 Years