Variac Transformer Rectifiers

Variac controlled Transformer Rectifiers are best for industrial solutions that require robust, trouble free operation.

**Features:**

- 1 phase or 3 phase AC supply to suit customer requirements
- Cooling oil natural, air natural, air ventilated, air forced
- Safe area up to IP68 (IP55 Cathodic Protection Co Ltd standard)
- Hazardous area zone 1, air cooled
- Output range available up to and over 1000A DC

**Generic Specification Features**

1. 1 phase or 3 phase AC supply to suit customer requirements
2. Cooling of natural, air natural, air ventilated, air forced
3. Safe area up to IP68 (IP55 Cathodic Protection Co Ltd standard)
4. Hazardous area zone 1, air cooled
5. Output range available up to and over 1000A DC

**Enclosures and Fabrication**

- We design our own tanks and cabinets in the following materials:
  - Mild steel sheet
  - Stainless steel 304 and 316L
  - GRP
  - Aluminium
- We offer a wide range of finishing and paint specifications to suit customer requirements including:
  - Galvanising to BS 729
  - Bead blast and blast S4.0
  - Hot zinc spray
  - Powder coating
  - Wet paint
- As standard we offer a high build zinc rich base coat with a long life powder top coat.

Tapped Transformer Rectifiers

Tapped transformer rectifiers for robust, low maintenance trouble free operation.

**Features:**

- 1 phase or 3 phase AC supply to suit customer requirements
- Cooling oil natural, air natural, air ventilated, air forced
- Safe area up to IP68 (IP55 Cathodic Protection Co Ltd standard)
- Hazardous area zone 1, air cooled
- Tapped control in 63, 36 or 25 steps from 0 to 100% of rated output
- Constant voltage control
- Analogue or digital metering
- Fully compatible with our Remote Monitoring Systems (RMS)

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1. 1 phase or 3 phase AC supply to suit customer requirements
2. Cooling oil natural, air natural, air ventilated, air forced
3. Safe area up to IP68 (IP55 Cathodic Protection Co Ltd standard)
4. Hazardous area zone 1, air cooled
5. Tapped control in 63, 36 or 25 steps from 0 to 100% of rated output
6. Constant voltage control
7. Analogue or digital metering
8. Fully compatible with our Remote Monitoring Systems
9. Designed in house by CPCL engineers
10. Low maintenance
11. 25 year design life as standard

**Accreditations:**

www.cathodic.co.uk
Clearly the best protection...

Catholic Protection Co Ltd has been manufacturing Transformer Rectifiers for over 30 years, with 4,000 units in operation in over 35 countries. Experience shows that our customers demand quality, versatility and cost-effectiveness when choosing their Catholic Protection power supply units. That’s why we have developed the TRUst™ range of Transformer Rectifiers - updating technology, retaining quality and meeting the needs of our increasingly diverse client base.

Some of our recent clients include MECAP, SABIC, Sonatrach, KBR and BP. With the diversity of our clients’ specification requirements, we were offered the challenge of developing a product reliable and simple to understand, which met the needs of today’s corrosion engineers.

We work hand in hand with our clients to deliver proven products that meet or exceed project specifications. Our purpose-built manufacturing facility in the UK has the capacity to handle any order, no matter how large. We recognise above all that our Transformer Rectifiers must be delivered on time, on budget and ready to get to work. TRUst™ takes Transformer Rectifier specification into the 21st century - practical, Transformer Rectifiers must be delivered on time, on budget and ready to get to work.

The TRUst™ range features Thyristor control of all power supplies. In terms of range and features, this is the most flexible system available, meeting the most arduous of industrial specifications.

Features:
- DC supply 110 to 690V, 1ph or 3ph, 50/60Hz as required by the client.
- DC output range 50 to 1000V and 100mA to 1000A as required by the client.
- Can monitor unlimited number of reference electrodes
- Air or oil cooled
- Built to suit all environments, including marine, desert, tropical and Arctic
- Safe or hazardous areas
- Enclosure manufactured from mild or stainless steel determined by the client specifications
- Enclosure paint finish to suit client specifications
- Control Types:
  - Constant Voltage
  - Constant current
  - Auto potential control
  - Survey Mode
- Control Resolution of 1mA and 1mV across output range
- DC output range 6V to 200V and 100mA to 1000A
- Air cooled
- Built to suit all environments, including marine, desert, tropical and Arctic
- Safe or hazardous areas
- Enclosure manufactured from mild or stainless steel as determined by the client specifications
- Microprocessor based control board
- User controller alarm indications
- Fully compatible with our Remote Monitoring and Control Systems (RMCS)  
- Designed in house by CPCL engineers
- 10 year design life as standard

Switch Mode Power Supply

Switch Mode Power Supplies (SMPS) are ideal for low power applications, particularly concrete CP systems.

Features:
- AC supply 30 to 265V, 1ph or 3ph, 50/60Hz with power factor >0.9
- 150W AC output with dual range at 24V 6A and 12V 12A
- High efficiency for low running costs
- Monitor unlimited number of reference electrodes with outstanding precision at less than 1mV
- Air cooled
- Built to suit all environments, including marine, desert, tropical and Arctic
- Safe or hazardous area
- Enclosure manufactured from mild or stainless steel as determined by the client specifications
- Control Types:
  - Constant voltage
  - Constant current
  - Auto potential control
  - Survey mode
- Control resolution of 1mA and 1mV across output range
- Control and monitoring
- Digital controls and metering
- User controller alarm indications
- Microprocessor based control board
- Fully compatible with our Remote Monitoring and Control Systems (RMCS)
- Designed in house by CPCL engineers
- 10 year design life as standard

DC to DC Power Supply

DC to DC Power Supplies are ideal for applications where AC power is not available as they can run directly from any DC source, including solar.

Features:
- DC supply 24 to 48V, 1ph, 50/60Hz
- 16V DC output with range of 0.55V - 20V
- High efficiency for low running costs
- Monitor unlimited number of reference electrodes with outstanding precision at less than 1mV
- Air cooled
- Built to suit all environments, including marine, desert, tropical and Arctic
- Safe or hazardous area
- Enclosure manufactured from mild or stainless steel as determined by the client specifications
- Enclosure paint finish to suit client specifications
- Control Types:
  - Constant voltage
  - Constant current
  - Auto potential control
  - Survey mode
- Control resolution of 1mA and 1mV across output range
- Digital controls and metering
- Digital controls and metering
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Remote Monitoring and Control System (RMCS)

Catholic Protection Co Ltd’s Remote Monitoring and Control System (RMCS) eliminates the need for checking or an installed personnel for running out any remote computer or mobile device, giving complete flexibility and versatility.

Features:
- Remote connectivity by GSM/GPRS, 3G and other
- Local connectivity by RS568 or Ethernet, fibre or copper
- Local server or cloud-based software, customised to the client’s needs
- Applications for steel in concrete compliant with BS EN 10210 (2012), pipelines, tanks farms, in-plant pipework and more
- Remote to non-CPS, power supplies

Access to the system can be via:
- PC with internet connection using web browser software
- PC connected to RMCS controller LAN
- Laptop or RMCS controller
- Optional RMCS 5” touch screen LCD display built into controller
- Internet enabled devices (e.g. iPad or Android phone)
- Laptop with Wi-Fi when RMCS controller is inside a Wi-Fi hub

For your investment...