

Cathodic Protection

Switched Mode Power Supply Control Unit



Corrocell Ltd's engineers have extensive experience in the mitigation of corrosion in many industries.

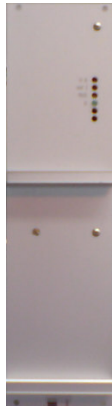
This experience extends to the design and manufacture of Transformer Rectifiers specifically aimed at supplying DC power and control to anode systems in multiple applications

Designed for Impressed Current Cathodic Protection (ICCP) for Platinised Titanium (Pt Ti) or Mixed Metal Oxide (MMO) Anodes. Typical applications would be Power Station Condenser Water Boxes, Heat Exchangers, Drum / ACW Filters, Oil and Seal Oil Coolers or pipelines.



Features

Switched Mode Power Supplies



- The basic building block of these units is the Switched Mode Power Supply (SMPSU).
- Regulated from zero to full output using a 0-10VDC Control signal.
- Current Ratings from 5A to 200A
- Natural convection air cooled units.
- Built in current limitation typically 105 -110% of nominal output current.
- Voltage limiting facilities as standard.
- Operating temperature from -20°C to +75°C which makes them suitable for high ambient temperature environments.
- Approximately 80% to 90% efficient
- Carry all EMC and safety standard tests to EN60950 Class I, EN 55022, Level A and VDE 0878.
- Three Phase or Single phase AC supply

Meter Control Card



- Manual – Output controlled by potentiometer adjustment.
- Automatic – Output controlled by feedback signals. Adjustable 'set-point' for control level.
- Selectable Constant Current or Constant Voltage.
- Digital Voltmeter – Value taken from the DC output voltage.
- Digital Ammeter – Value taken from mV across a DC output shunt.
- Digital Reference Electrode display meter.
- Current Limit – Adjustable current limit form zero to full output.
- Auto-Control from any one of four selectable reference electrodes.
- SCADA Outputs scaleable for Voltage/Current/Reference Electrode potentials
- DC fail Alarm relay – Volt free contacts
- Error offset adjustment.