

## Polaron Cortina Controller



Stock No	<a href="#">RU705</a>
Other Info	Master/slave controller for multiple mcs
Location	Our Central Warehouse, Aldridge, UK
Weight (kgs)	55
External Dimensions (WxDxH mm)	1010 x 300 x 1000

### Description

A Siemens PLC control panel that is capable of controlling up to three Polaron Cortina Rectifiers, either in series or parallel.

The panel allows the units to be grouped and controlled as a single unit at an output of up to 21,000 Amps whilst also monitoring external safety signals such as water flow, rectifier overload, and interlocked operator and machine safety signals.

Cortina specialise in the manufacture of Variable voltage and current thyristor rectifiers, for anodising, welding and plating applications.

The Polaron Cortina is a primary SCR, single copper wound transformer, DC power supply that was originally employed for a plating/brightening anodizing application.

The Polaron Cortina rectifiers SCR diodes are water cooled allowing it to be used in warmer climates compared to the more traditional UK air cooled units.

**Technical details;**

Output Voltage Range: 0V - 60VDC per unit

Output Current Range: 0A - 7,000Amps per unit

**Features & Benefits.**

Highly Efficient all copper transformer construction

Updated Emmerson Mentor II thyristor driver

Water Cooled Domestic and International Voltage Capability

Low Ripple Tight Voltage and Current Regulation

Selectable DC Overload DCCT coils for current feedback.

**Technical Specs**

Power factor 0.9 at full rated output

Relative humidity up to 95%

Efficiency 85% - 90%

Input Line Variation Standard: +/- 5% from nominal Voltage

Regulation +/- 0.5% of full rated output

Current Regulation 2.8% AC Ripple @ Full Output :

Ramp time 0 - 100% adjustable from 20 to 60 secs

**Polaron Cortina**

Polaron Cortina three-phase controlled rectifiers have a wide range of applications;

- Electroplating
- Anodising
- Electro-machining
- Testing

The Marketplace for Surface Technology.  
New and Used Process Equipment & Machinery.  
*Machine Datasheet*



- Electro-winning
- Electro-galvanising
- Electropolishing,
- Electrowinning (electroextraction),
- DC transmission systems,

And water purification to name but a few.

**Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.**