

## SPECIFICATIONS – Three Phase

|                              |  |
|------------------------------|--|
| Technology                   | μ controller based with digital signal processing  |
| Input Voltage Range (Volts)  | 360 – 460, 360 – 480, 340 – 460, 300 – 460<br>Other ranges available against specific requirements |
| Output Voltage               | 380V, 400V, 415V ± 1%, 3Ø, 50 Hz   |
| Input Frequency range        | 47-53 Hz   |
| Line Regulation              | ± 1%   |
| Rate of Correction           | 35 V/Sec – Phase to Neutral, 70 V/Sec – Phase to Phase   |
| Wave Form Distortion         | Nil  |
| Password Protection          | Provided   |
| Output Voltage Adjustment    | ± 10v  |
| Display                      | LED / LCD  |
| Type of Cooling              | Natural Air cooled – Oil cooled (oil as per IS 335)  |
| Normal Operating Temperature | 0 - 45° C  |
| Mounting                     | Uni-directional wheels   |
| Duty Cycle                   | 100% Continuous  |

## PROTECTIONS

- » Output/Input High/Low Voltage cut-off
- » Short-circuit, overload protection
- » MCB - MCCB\* with trip delay setting of 2-6 Sec.
- » Single Phasing preventer
- » Phase reversal protection
- » Audio Alarm for abnormal input/output

## PANEL METER & INDICATIONS

- » LCD/LED Display
- » Voltage indication for each phase
- » Voltage indication between two phase
- » Current indication for each phase
- » Event log for last three events (tripping on fault)



**evolution**  
power electronics

# evolution

## SERVO CONTROLLED VOLTAGE STABILIZER

Up to 2000 KVA



### INTRODUCTION TO EVOLUTION

Power conditioners - Servo controlled voltage stabilizers are not unlike insurance policies. These are products that must insure reliable continuous, industrial grade, AC power for your critical load, regardless of what happens to your primary AC power source. Not only must you be convinced that the product being considered is reliable, but you must also feel the same way about the Company that manufactures it. Both the product and the company must be there when you need them.

Since 1987, Evolution has been manufacturing high quality AC power equipment, ranging from Isolation transformer to Servo controlled voltage stabilizers for a wide range of applications in large, medium and small scale industries, business, medical and residential. The performance and reliability of our equipment has been demonstrated in a wide variety of environmental conditions from controlled computer rooms to the most severe industrial situations.

With extensive, modern facilities, Evolution is devoted to advanced research and development, followed through with sophisticated automation of many aspects of test and manufacturing. Because of the many technological innovations, Evolution is able to offer leading edge technology and proven reliability at extremely competitive prices.

Maximum product reliability results when a design uses the minimum number of conservatively rated components required to get the job done. To eliminate large number of discreet components, Evolution uses integrated circuits for low-power control and logic functions.

This catalog outlines the products and services that we offer. We are proud of our capabilities to supply you with a quality system that will assure you years of reliable AC power.

### QUALITY ASSURANCE

The majority of the Power Conditioners are installed to protect critical applications. Given that a particular model satisfies the application regarding performance and features, reliability is of paramount importance. Reliability directly relates to quality.

But quality cannot be "inspected" into a product. It must start with product design and be stressed throughout the entire manufacturing cycle.

The high reliability and maintainability of the Evolution products are the direct result of design simplicity in high power components and sophistication in low-level control circuits.

Quality Assurance is responsible for all phases of quality for design evaluation through material procurement, in process inspection during the manufacturing cycle, product test, shipping and, in order to track reliability, analyzing computerized data report.

Each product is subject to final operational testing and verification of conformance to specifications.

### WHY CHOOSE A EVOLUTION POWER CONDITIONER

- »  $\mu$  controller based design
- » Lowers equipment failure rate, hence lower breakdown of Electrical equipment Saves electricity - lower electric bills (6-10% on motor load & 20-25% on lighting load)
- » Improves power factor
- » Improves productivity and maintains product quality
- » Quiet operation
- » Zero maintenance cost, no spares required
- » 100% continuous duty cycle
- » Auto and Manual operation and simple electronic control circuit
- » Payback period 6-12 months (depending on voltage variation & working hours of the plant)
- » Full range – 1 KVA – 1000 KVA
- » Life time support
- » Depreciation of 80% as per Income Tax act

### APPLICATION

|                         |                          |                       |                           |
|-------------------------|--------------------------|-----------------------|---------------------------|
| Iron & Steel Plants     | Plastic Industry         | Rice Mills            | Cold Storage units        |
| Cement Plants           | Salt Industry            | Ceramic Industry      | Tea estates               |
| Pharmaceutical Industry | Food processing Industry | Automobile Industry   | Rubber Industries         |
| Engineering Industry    | Distilleries & Beverages | Packing Industry      | Rolling Mills             |
| Textile Industry        | Oil & Gas Industry       | Tube Mills            | Hospitals & Nursing Homes |
| Glass Industry          | Paper Mills              | Leather Units         | Hotels & Clubs            |
| Metals & Mining         | Technology               | Construction Industry | Residential units         |