



## Monophase Variac Controlled Gilding Rectifier User Manual

### A. MOUNTING

1. Examine the equipment for any visible damage: punctures, dents, and any other signs of possible internal damage (See G 5).
2. Plug in feed cable to grounded socket.
3. Connect output cables to + (black) and – (red) terminals tightly.
4. Make anode and rack connections to clean surface tightly for obtain best plating results.
5. Electrical ground connection should be done.
6. Place the equipment on suitable and durable ground.
7. Keep away equipment to avoid contact non-operational personel and animals. Make necessary arrangements to provide comfortable working area.

### B. SAFETY

1. Before open equipment cover plate, take off input cable.
2. Do not touch with conductive parts.
3. Make necessary arrangements for working area durability.
4. Installation should be done by skilled electrician.
5. In case of any breakdown contact service department.
6. Take out network connection cable if the equipment do not use for long-term.
7. Do not overload the equipment.
8. Take precautions against quakes.
9. Do not use equipment out of ( $\pm$  %5) input voltage limits. Take precautions against network voltage drops.
10. Do not cover ventilation holes.
11. Equipment have input switch and timer. Adjust process duration (hours and minutes) with timer. Additionally, you can close timer with on/off switch.

### C. USE

1. For your protection, the product manual should be read and thoroughly understood before unpacking, installing, or using the equipment.
2. Equipment should be use by skilled personel.
3. For supply cable selection, make voltage drop, warm-up and current control calculations and choose one upper cable cross-section.
4. Network grounding resistance between equipment and supply should be lower than 0,1 ohms.
5. Supply voltage should be at the true value as seen on nameplate.
6. Measuring devices calibration should be done periodically.
7. Before plating, calibrate measurement devices with verified calibrate device.

### D. PROCESSING

1. Plug in the input cable to suitable network supply.
2. Connect suitable cross-sectional (+ / -) output cables tightly.
3. Take input switch from zero ( 0 ) to ( 1 ) position.
4. Turn variac controller to zero ( 0 ) position.
5. Press Start button (green). Measurement devices represent values.
6. Check if there is any unsuitable / unsafe situation.
7. Adjust desirable value by turning variac controller clockwise (0 to 100)
8. Stop adjustment while desirable value seen on measurement device.
9. To shut down equipment turn variac controller to zero position (you should see 0 volt(s) at voltmeter).
10. Press Stop button.





**YILDIRIM**  
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11. Take input switch from ( 1 ) to zero ( 0 ) position.
12. Environmental temperature that equipment used in should be between -20°C to +40°C. At closed environments avoid over temperature situation.
13. Environmental humidity should be lower than 70% relatively.
14. Do not use equipment control panel with moist and acidic gloves.

## **E. HANDLING AND STORING**

### **E1. HANDLING**

1. Equipment can be universally heavy or top-heavy. Use adequate humanpower or equipment for handling. Until the equipment is securely mounted, be careful to prevent the equipment from being accidentally tipped over.
2. Take precautions against turn over or crash equipment while carrying. Handle with care.
3. Take precautions to protect equipment from snow, rain, dust etc.

### **E2. STORAGE**

1. Storage area temperature should be between -10°C and + 30°C.
2. Storage area humidity should not excess 70%.

## **F. WARRANTY**

Two ( 2 ) years begining from waybill date against production faults.

## **G. WARRANTY VOID**

1. Nonskilled personel intervention.
2. To use out of current/voltage limits that seen on nameplate.
3. To ignore installation, operating, maintaining and safety directions.
4. To interfere equipment out of supplier acceptance.
5. It is your responsibility to document any damage the carrier may have inflicted, and to file your claim promptly and accurately: If any damage is detected, call the delivering carrier to determine appropriate action. After the inspection has been made, call us. We will determine if the equipment should be returned to our plant for repair, or if some other method would be more expeditious. If it is determined that the equipment should be returned to us, we will invoice you for the repair so that you may submit the bill to the delivering carrier with your claim form. Ask the delivering carrier to send the packages back at the delivering carrier's expense. It is your responsibility to file a claim with the delivering carrier.

## **H. MAINTANENCE**

Your equipment needs minimum maintainence. Furthermore electrical equipments need periodically maintainence and cleaning as follows:

1. Switch off the rectifier energy. Only skilled electrician should be do electrical maintainence.
2. Clean surface with a dry dustcloth. Do not use any conductive material (metal, wet cloth etc.).
3. Do not use scratch material for cleaning.
4. Protect the equipment against dust, moisture and other corrosives.
5. Air cleaning could be use. Do not use moist air.

**Note:** You can contact us for any technical support.

**THANK YOU FOR CHOOSE OUR PRODUCT.**