

# VOLTAGE STABILIZER AVR-3000 PRO

## 150÷260 VAC / 230 VAC 3000 VA

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
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|  | <table> <tr><td>Input voltage:</td><td>150÷260VAC</td></tr> <tr><td>Input frequency:</td><td>50 Hz</td></tr> <tr><td>Output voltage:</td><td>230VAC</td></tr> <tr><td>Output frequency:</td><td>=Input frequency</td></tr> <tr><td>Output precision:</td><td>±3%</td></tr> <tr><td>Maximum power:</td><td>3000VA</td></tr> <tr><td>Continuous power:</td><td>1800W</td></tr> <tr><td>Distortion:</td><td>3%</td></tr> <tr><td>Efficiency:</td><td>90%</td></tr> <tr><td>Delay time:</td><td>6/180 seconds selectable</td></tr> <tr><td>Protection:</td><td>undervoltage, overvoltage, overload, temperature</td></tr> <tr><td>Noise:</td><td>&lt;65dB (at 1m distance)</td></tr> <tr><td>IP Degree:</td><td>IP20</td></tr> <tr><td>Operating Humidity:</td><td>&lt;95%, no condensation</td></tr> <tr><td>Working temperature:</td><td>-10°C to +40°C</td></tr> <tr><td>Storage temperature:</td><td>-20°C to +45°C</td></tr> <tr><td>Cooling:</td><td>Passive</td></tr> <tr><td>Mains connector:</td><td>Screw terminal</td></tr> <tr><td>230V output connector:</td><td>Screw terminal</td></tr> <tr><td>Case:</td><td>Aluminum</td></tr> <tr><td>Ingress protection code:</td><td>IP21</td></tr> <tr><td>Dimensions L x W x Height:</td><td>340 x 240 x 230 [mm]</td></tr> <tr><td>Weight:</td><td>12kg</td></tr> <tr><td>EAN:</td><td>5903699340790</td></tr> </table> | Input voltage: | 150÷260VAC | Input frequency: | 50 Hz | Output voltage: | 230VAC | Output frequency: | =Input frequency | Output precision: | ±3% | Maximum power: | 3000VA | Continuous power: | 1800W | Distortion: | 3% | Efficiency: | 90% | Delay time: | 6/180 seconds selectable | Protection: | undervoltage, overvoltage, overload, temperature | Noise: | <65dB (at 1m distance) | IP Degree: | IP20 | Operating Humidity: | <95%, no condensation | Working temperature: | -10°C to +40°C | Storage temperature: | -20°C to +45°C | Cooling: | Passive | Mains connector: | Screw terminal | 230V output connector: | Screw terminal | Case: | Aluminum | Ingress protection code: | IP21 | Dimensions L x W x Height: | 340 x 240 x 230 [mm] | Weight: | 12kg | EAN: | 5903699340790 |
| Input voltage:                                                                    | 150÷260VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Input frequency:                                                                  | 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Output voltage:                                                                   | 230VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Output frequency:                                                                 | =Input frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Output precision:                                                                 | ±3%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Maximum power:                                                                    | 3000VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Continuous power:                                                                 | 1800W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Distortion:                                                                       | 3%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Efficiency:                                                                       | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Delay time:                                                                       | 6/180 seconds selectable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Protection:                                                                       | undervoltage, overvoltage, overload, temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Noise:                                                                            | <65dB (at 1m distance)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| IP Degree:                                                                        | IP20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Operating Humidity:                                                               | <95%, no condensation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Working temperature:                                                              | -10°C to +40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Storage temperature:                                                              | -20°C to +45°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Cooling:                                                                          | Passive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Mains connector:                                                                  | Screw terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| 230V output connector:                                                            | Screw terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Case:                                                                             | Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Ingress protection code:                                                          | IP21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Dimensions L x W x Height:                                                        | 340 x 240 x 230 [mm]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| Weight:                                                                           | 12kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |
| EAN:                                                                              | 5903699340790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |            |                  |       |                 |        |                   |                  |                   |     |                |        |                   |       |             |    |             |     |             |                          |             |                                                  |        |                        |            |      |                     |                       |                      |                |                      |                |          |         |                  |                |                        |                |       |          |                          |      |                            |                      |         |      |      |               |

**AVR** (Automatic Voltage Regulator) is used for maintenance-free regulation of 230V AC voltage. Its typical application is to stabilize the supply voltage between a generator, or other unstable power source, and sensitive electronics (powered by 230VAC). The stabilizer automatically adjusts high voltage down and low voltage up to the appropriate level. If the voltage constantly increases and exceeds a safe value, the stabilizer automatically disconnects the device from the network, thus protecting the electronics against damage. The **PRO** version is characterized by high accuracy of the corrected voltage.

### Ideal solution for powering:

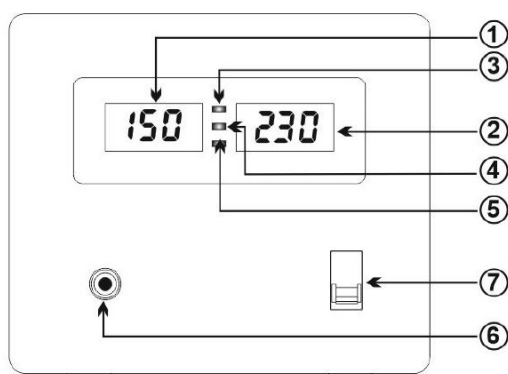
- Refrigerators and freezers, Microwave ovens
- Electric motors, Pumps, Compressors
- Drills, Grinders, Lawnmowers, Vacuum cleaners
- Incandescent bulbs, LED lights, Fluorescent tubes
- Laptop and USB chargers, Computers and monitors, TVs
- Printers, Cash registers,
- CO pumps, induction motors

# VOLTAGE STABILIZER AVR-3000 PRO

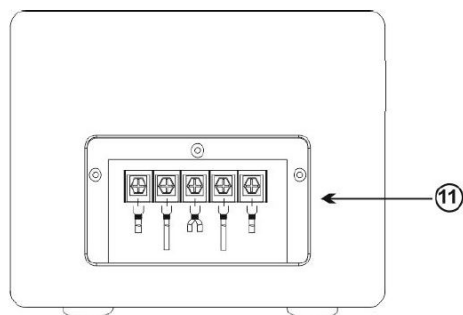
## 150÷260 VAC / 230 VAC 3000 VA

Input voltage (V) / Real efficiency (% of rated power)

| Input voltage | Real efficiency | Input voltage | Real efficiency | Input voltage | Real efficiency | Input voltage | Real efficiency |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| 150 V         | 60 %            | 180 V         | 72%             | 210 V         | 84%             | 240 V         | 96%             |
| 160 V         | 64 %            | 190 V         | 76%             | 220 V         | 88%             | 250 V         | 100%            |
| 170 V         | 68 %            | 200 V         | 80%             | 230 V         | 92%             | 260 V         | 100%            |



- 1: input AC voltage
- 2: output AC voltage
- 3: green LED - "power on" indicator
- 4: orange LED - "delay" indicator
- 5: red LED - "protect" indicator
- 6: delay switch
- 7: mains switch



- 11: input / output AC screw terminal