

6. HIGH / LOW VOLTAGE PROTECTION

- The Stabiliser is equipped with a specialised high/low output voltage protection circuit.
- This special and unique circuit is designed to protect the connected devices in case the output voltage is higher/lower than the normal range.
- If the output voltage is higher/lower than the normal range, the output power will be automatically disconnected.
- When the mains input voltage returns to the normal range, the Stabiliser will automatically restore the output power.

7. SHORT CIRCUIT PROTECTION

- The Stabiliser is equipped with a specialised function of SHORT-CIRCUIT PROTECTION.
- In the event of a short circuit, the fuse on the back of the unit will cut off the input power.
- Check that the Stabiliser is not connected to an excessive load, if so, remove the load to its rated capacity, replace the fuse.
- If the above steps do not solve the problem, it is probably an electronic failure, please contact Technical Service of NTEC.

8. CAUTION

- Avoid overloading.
Do not use the stabilizer above its maximum output power.
- When connected to any appliance with a built-in motor or compressor, the starting power is usually several times higher than the rated power of the appliance. Please ensure that the total starting power of all connected appliances does not exceed the listed maximum output power of the controller. In the case of colour televisions, this should be calculated as twice the listed power.
- Ensure that the regulator has the same output voltage and frequency as the devices to which it is connected, and that the mains voltage is within the specified input voltage range of the Stabiliser.
- Always place the regulator in an environment that is
 - * well ventilated
 - * out of direct sunlight or heat source, and inaccessible to children
 - * away from water, moisture, oil or grease
 - * away from all flammable substances
- If the power cord is damaged, it MUST be replaced by NTEC sp. z o.o. Technical Service. or a similarly qualified person to avoid the risk of electric shock.

6. SPECIFICATIONS

Model	50722	50723	50724	50725	50726	50727	50728	50729
Power	500VA/ 400W	1000VA/ 800W	2000VA/ 1600W	3000VA/ 2400W	5000VA/ 4000W	10000VA/ 8000W	1000VA/ 800W	2000VA/ 1600W
Case colour	Grey							
Input Voltage	220 - 240V							
Input Frequency	50 ~ 60 Hz							
Output Voltage	230V							
Output Frequency	Synchronized with input frequency							
Output precision	±10%							
Distortion	<3%							
Efficiency	>95%							
Delay Time	6 seconds/ 180 seconds							
Type	Single phase							
Usage	Appliances protection against mains interference							
Transformer	Toroidal						Servo motor	
PFC	0.8							
Protection	High temperature, high voltage, low voltage, short circuit							
Cooling System	Passive cooling			Active cooling (fan)			Passive cooling	
LCD screen	Yes							
Outlets	1x SCHUKO	2x SCHUKO	No				1x SCHUKO	2xSCHUKO
Input Power Cable	1x EU Plug			No			1x EU Plug	
Terminal	No			Input/Output			No	
Operating temperature	-10°C ~ 40°C							
Relative humidity	Max 95%, non-condensing							
Storage temperature	-20°C ~ 40°C							
Noise	<65dB (at 1m distance)							
IP Level	IP20							

* Specification are subject to change without notice.

	Producer: NTEC sp. z o.o. ul. Chorzowska 44B, 44-100 Gliwice, Poland	b2b.ntec.eu WEEE/BDO: 000137497 Made in China Designed in Europe	
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Monolith®

USER MANUAL AUTOMATIC VOLTAGE REGULATOR

Model: 50722, 50723, 50724, 50725
50726, 50727, 50728, 50729

Qoltec®

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PLEASE READ AND RETAIN THIS MANUAL

Thank you for choosing the AVR Qoltec. This product will provide you with excellent protection for your connected equipment. This manual will guide you through the installation and use of the Stabilizer. It contains important safety instructions for the operation and proper installation of the Stabilizer. If you have any problems with the device, please read this manual before you call Customer Service.



This symbol gives information about points which are important for your own health and safety, the operation of the Stabilizer and the security of your data.



This symbol gives information, warnings and other suggestions.

1. IMPORTANT SAFETY INSTRUCTIONS

The Stabilizer has been designed to provide all necessary safety conditions to protect home appliances and electronic office equipment. If you have any questions, please contact Technical Service NTEC sp. z o.o..

- In order to avoid any damage to the device, it is recommended to transport it in its original packaging.
- In case of sudden temperature changes, steam may form inside the Stabilizer. It is necessary to wait at least 2 hours before starting it up. It is necessary to dry the stabilizer before switching it on.
- After drying, observe all conditions stated in the technical specifications before connecting to the mains.



The earthing cable should be selected with regard to the current carrying capacity. All earthing connections of devices that are connected to the Stabilizer should be made with an earthing cable. Without a proper earthing or an unapproved earthing there is a risk of damaging the electrical circuits. When installing a Stabilizer, if an improperly specified cable is used, it can be dangerous to the health of the user, and the device itself.



- Please place all cables in a suitable location so that they are not damaged by users. Read carefully all instructions and warnings in the "BEFORE INSTALLATION" section of this manual before connecting to the mains.
- Do not drop any objects into the Stabilizer.
- In case of emergency (damage to housing, front panel, mains connections, flooding with liquid), please turn off the Stabilizer, pull out the plug and inform Technical Service NTEC sp. z o.o..
- Do not connect loads to the Stabilizer that exceed its power range.
- When the input distortion is too high, the Stabilizer may not work properly.
- Keep the original packaging for transport.
- The cable insulation must be airtight to prevent oxidation of the cable.



The stabilizer may only be repaired by Technical Service NTEC sp. z o.o.. Any attempts by the user to open and repair it on his own may prove dangerous.

The Stabiliser shall be installed in accordance with the technical specification:

- The mounting location of the Stabilizer shall be in accordance with the specification requirements.
- Do not install or operate the Stabilizer in or near water.
- Do not place the Stabilizer on an unstable cart, stand or table.
- Do not place the Stabilizer where it will be exposed to direct sunlight or near sources that emit heat.
- Do not place the power cord of the Stabilizer where it can be damaged by heavy objects.



Placing magnetic data carriers on the Stabiliser may cause data corruption.



Precautions

When the input voltage comes from a generator:

- The output power of the generator must be higher than the rated power of the Stabilizer, otherwise the Stabilizer and generator, will not work properly.
- The output frequency of the generator must be in the range of 50-60Hz, and the waveform must be sinusoidal, otherwise the Stabilizer and generator, will not work properly.

NOTE: The automatic voltage Stabiliser is single phase.

2. BEFORE INSTALLATION

After unpacking the Stabilizer, check it for damage.

a). Package Contents:

- Stabilizer
 - User Manual
- b). Please check the parameters of the device to see if they comply with your order
- c). Please check the device for damage. In case of any damage, contact your dealer.

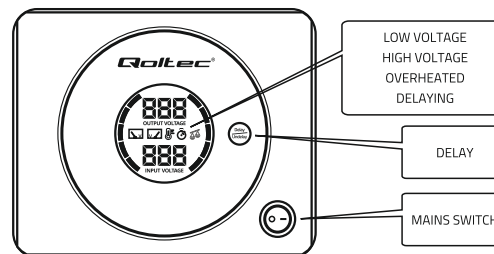
In this case, do not repair the device yourself!

3. DESIGN

Please familiarize yourself with the various functions of the Stabilizer by analysing the following graphics.

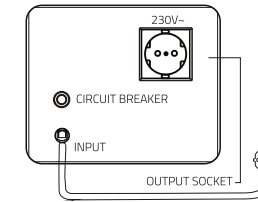
A. Front

of Stabilizer
Dual digital
display

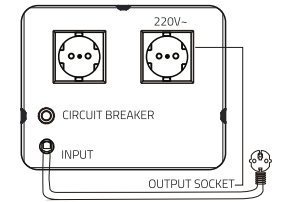


B. Back of the Stabilizer

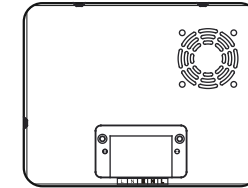
a). 500VA/ 1000VA



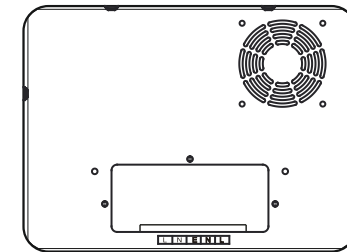
b). 2000VA



c). 3000VA/ 5000VA



d). 10000VA



4. SWITCHING ON THE STABILIZER

Set the power switch to the "ON" position.

In case of power failure:

- Turn off the regulator and all equipment.
- When power is restored, repeat the above steps.
- Turn off the regulator. Wait a few minutes, then turn the power switch to the "ON" position.

5. OPERATION WITH DELAY

This model is equipped with a delay function to protect appliances with compressors that should not be turned on immediately after being turned off.

- All models have a delay function. The default delay time is 6 seconds. This function is required for products with motors and compressors to prevent damage due to frequent switching on and off.
- To select the delay mode, press the DELAY button on the front panel. The delay LED will light "ON" and the display will show "ZERO". The delay time will be 6 seconds or 180 seconds, selectable by pressing the delay button.