



## PROGRAMMABLE, SCR CONTROLLED RECTIFIER USER MANUAL

Read user manual carefully before set up the rectifier.

### SETTING UP THE RECTIFIER

Place the rectifier on a flat ground. Rectifier working space has to be not moist, wet and there must be enough distance around the rectifier for ventilation. Rectifier do not exposed to direct heat source.



Rectifier has a cable junction in the control box to connect 3 phases (AC 380 V 50 Hz.), 1 neutral and 1 grounding cable. **RECTIFIER MUST BE GROUNDED.**



Output connections is made at backside copper bars. Red coloured bar is positive pole (+ , anode) and black coloured bar is negative pole (- , cathode). Take care of the connections are not loosen.

Oil filling lid and oil level rib are also backside of the rectifier.

Water cooling pipes only for water cooled devices.



Remote Control panel is on the rectifier. If desired, rectifier could be controlled remotely. In such a case, control panel could be take any place by removed the screws from rectifier body.

Plug in rectifier remote control cable to the remote control panel socket.



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## PROGRAMMING

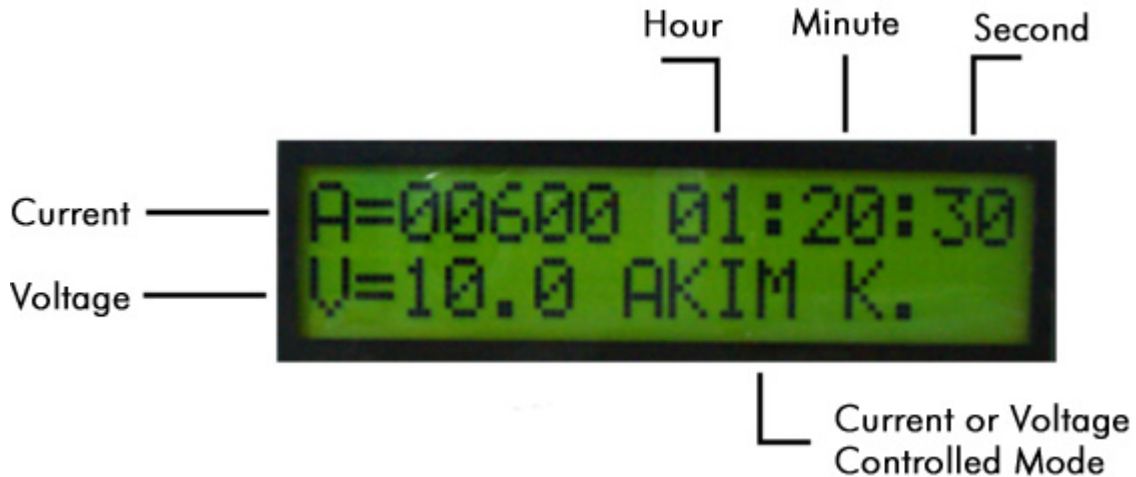
Before start the rectifier, rectifier running parameters have to be programmed and stored in system memory. When the system is shut down, the parameters not be lost. In case of to start the system, rectifier runs at programmed values.

Memory has 4 programs: AKIM K. (Manual Current Control), VOLT K. (Manual Voltage Control), PLC A.K. (PLC Current Control) and PLC V.K. (PLC Voltage Control). To enter parameters use RIGHT, LEFT, UP and DOWN ARROW buttons. RIGHT and LEFT ARROW buttons select the indicator that ready to accept increment or decrement. Set desired value by pressing UP and DOWN ARROW buttons.



## CURRENT AND VOLTAGE PROGRAMMING

Before run the rectifier, you have to set Voltage ( V ) or Current ( A ) values. If you need to work at Current Controlled Mode (constant at programmed current value), set desired current value. For example, desired current value is 600 Amperes, use ARROW buttons to set A = 00600, and set program digit (right down) to A (Manual Current Control).



If you need to work at Voltage Controlled Mode (constant at programmed voltage value), set desired voltage value. For example, desired voltage value is 10 Volts, use ARROW buttons to set V = 10.0, and set program digit (right down) to V (Manual Voltage Control). To start rectifier, push RED / GREEN coloured START / STOP button. The red light above the button turns to green. Do not run rectifier in case of unloaded.

While running situation, you can set voltage or current by pressing up and down arrow.



### PROCESSING TIME PROGRAMMING

Before run the rectifier, you have to set process time as HOUR, MINUTE and SECOND. For example, set 01:20:30 to run rectifier at 1 hour 20 minutes and 30 seconds. After this time reached, the rectifier will stop (maximum programmable running time is 23 hours 59 minutes 59 seconds). 00:00:00 set need manually stop.

### WARNING MESSAGES

Rectifier has OVER HEAT and PHASE PROTECT systems. In the case of heat rises, rectifier responds with OVER HEAT warning message on program display and stops operation. Rectifier temperature might be over thermostat degree (thermostat have to be set to 70 °C) or thermostat degree might be reduced.



In case lack of any line, rectifier responds with LACK PHASE warning message on program display and stops. In such a situation make a qualified person to check main connection or availability of lines at the input of rectifier.



In the case of wrong phase connection rectifier does not operates, responds with WRONG PHASE warning message on program display. Switch phase connections.



**ATTENTION!** After correct the situation causes to warning message, Shut down the rectifier, wait 5 seconds and restart.

THANK YOU TO CHOOSE OUR PRODUCT.