

# Load controller for small Wind- and water-power plant

Made in Germany  
developed and produced in  
Germany!

## Main applications:

- **Small wind- and water-power plant for feed-into the grid**  
==> load controller is used for the overvoltage protection of the grid inverter
- **Easy wind heating system**  
==> load controller enabled starting without load and individual operating point adjustment

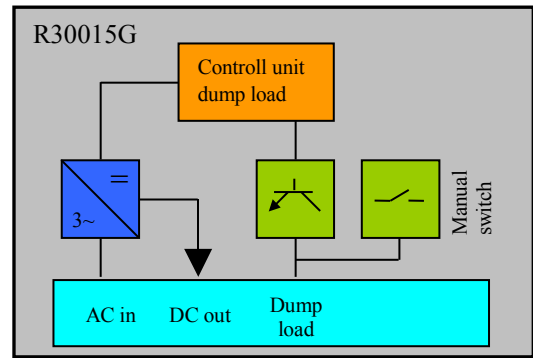
## Specifics

- extreme fast voltage limitation by FVC-technology
- trigger the dump load over Pulse\_Wide\_Modulation enabled accurate closed-loop control
- through 15A dc nominal current 3~ bridge rectifier already integrated
- manually step down the wind generator by hand switch possible
- built-in a coated steel-sheet housing provided for wall-fastening
- Indicator LEDs at frontside
- customized changes possible
- compatible dump loads available



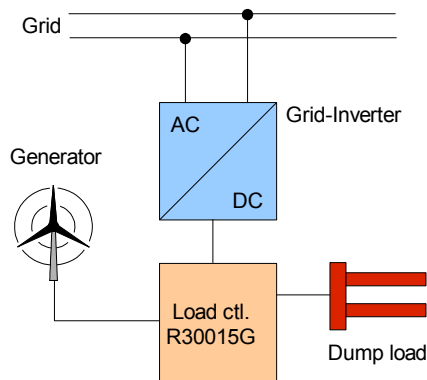
# Description

The controller is used for limitation and/or control the voltage of wind- and water-power plant. At feed in grid systems the controller is taken the overvoltage protection for the grid-inverter. At easy wind heating systems the controller enabled start-up without load. If the setpoint value is reached the connected dump load would be via pulse wide modulation switched on. Now, the switch-on time of the dump load would be controlled that voltage keeps constant.

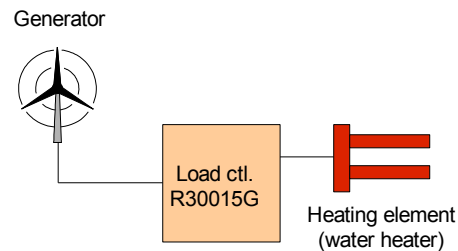


Block diagram R30010G

## Simplified block diagram of feed in grid system / wind heating system



Feed in grid system



Wind heating system

# Technical specifications

<b>Power section</b>	
Input voltage range	3x 0 – 250V (max. 290V) AC
DC-voltage limitation (adjustable)	ca. 60 – 350V (max. 410V) DC
Max. continue output current	15A (25A) DC
<b>Control section</b>	
Supply current (typ.)	6 mA
Close loop control typ	PWM
PWM frequency	440 Hz
control mode	PI + „FVC“
Max. voltage swing at 100% step change in load	1,1 x U set
<b>General data</b>	
Operating temperature	-10°C up to +40°C
Terminal	6mm <sup>2</sup> spring-type terminal
Enclosure	Coated steel-sheet wall-fastening Protection class IP 20
Dimensions bxxhxt (mm)	200x300x160
Certification	CE

Subject to change without notice