

Manufactured by:



# SIRIUS

**From 200kVA to 6000kVA with columnar regulator**



SIRIUS stabilisers are based on ORTEA columnar voltage regulators: they allow to reach a rated power of 6000kVA and realize a solid and reliable construction in order to satisfy any industrial need. The three-phase SIRIUS line covers the range from 200kVA to 6000kVA and allows for the choice of several input voltage variation percentages within a broad range (from +30% up to -45%).

The SIRIUS voltage stabilisers are supplied with independent regulation on each phase, therefore, the presence of the neutral wire is required (Internal zigzag reactor is included for areas with Delta input). The SIRIUS type is use when the main is unbalance and it is suitable for supplying three-phase loads, two-phase loads and single-phase loads. The stabilisers are air cooled, with natural convection up to 45°C and aided by fans when temperature is above 45°C.

The measuring instrumentation for the SIRIUS stabilisers is incorporated in a control panel on the cabinet door that consists of two multi-task digital network analysers. Said instruments are able to provide with information regarding the status of the lines upstream and downstream the voltage stabilizer such as phase and linked voltages, current, power factor, active power, apparent power, reactive power, etc. The front panel is provided with a led user-friendly interface which allows a complete monitoring of the unit (by indicating the status of the three regulators and the possible alarms). LED lights are provided for each phase signaling "power on", reaching of voltage regulation limits and direction of voltage regulation (increase/decrease). Alarms for minimum and maximum voltages, maximum current, over-temperature, cabinet overheating and maintenance required are also indicated. The alarm indicators are accompanied by an acoustic alarm.

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## SIRIUS 200kVA to 600kVA

Their control system is completely renewed and is able to interface with the internet network, thanks to its capability to connect with ETHERNET and GPRS protocols. This allows a remote monitoring of the equipment made by ORTEA at its headquarters, in order to guarantee a prompt assistance in every part of the world. This control system is also provided with two USB ports for downloading data on a memory key and uploading setting parameters if operating modifications in the system are needed. It's also possible to update the control firmware either with USB port or with Ethernet connection.

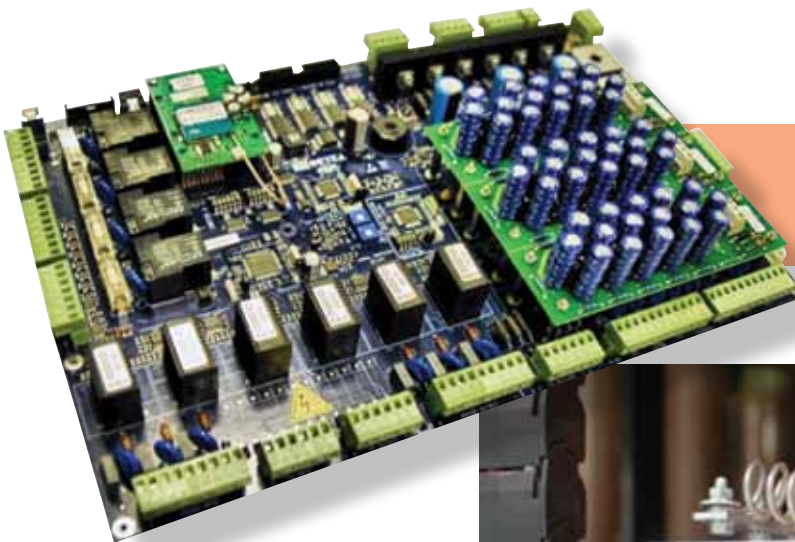
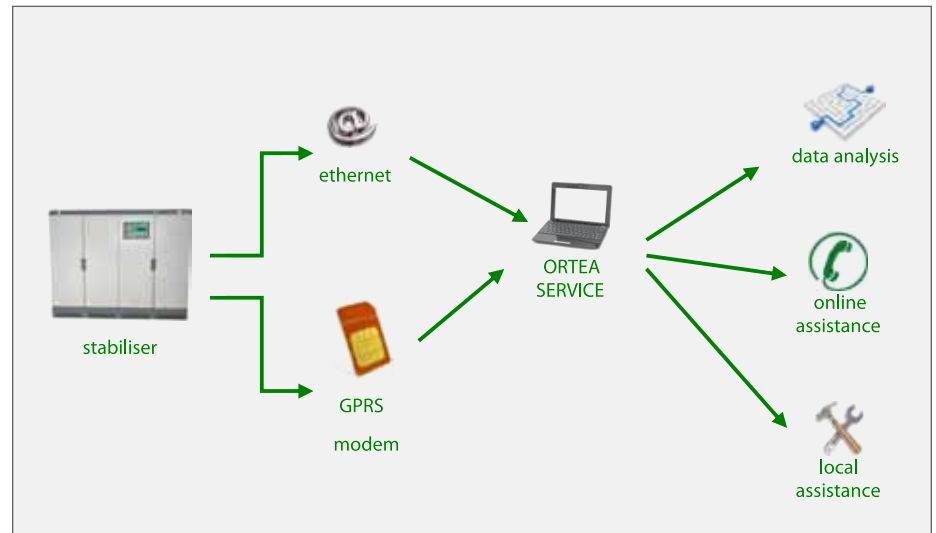
The SIRIUS stabilizer is provided with a voltage regulator protection circuit controlled by the 'Bypass Electronic card' which activates only because of an overload on the voltage regulator. In such condition the load supply is not interrupted, but the voltage on the output

of the stabilizer is equal to the input one. The service continuity is guaranteed, although the voltage is not stabilized. When the overload condition ceases to exist, the stabilizer switches back to regular functioning automatically.

The logic control, performed on the true

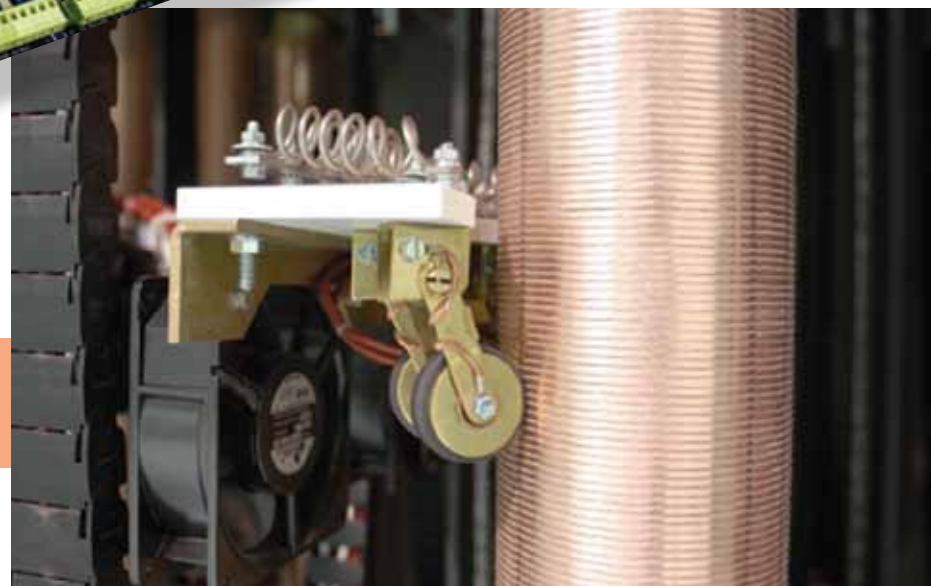
RMS voltage, is based on the 2-way DSP microprocessor. This allows the user for monitoring the system and setting all the parameters of the stabilizer via a PC connection are made possible.

All SIRIUS stabilisers are provided with SPD surge arrestors Cl. I and Cl. II.



**New generation multi-purpose control board fitted with two DSP microprocessor, bodyguard microprocessor and GPRS modem**

**Columnar voltage regulator with electrographite rollers**



## Standard Features

Selectable Output Voltage (PC and Ethernet)	from 360 to 440 V (Based on 40V nominal)
Frequency	60 Hz $\pm$ 5%
Admitted Load Variation Admitted Load Unbalance	from 0 to 100% 100%
Cooling	Natural Air (Aided over 45°C)
Ambient Temperature	-25/+45°C
Storage Temperature	-25/+60°C
Relative Humidity	95%
Admitted Overload	200% 2min
Colour	RAL 7035
Protection	IP 21
Installation	Indoor
Regulator Overload Protection	DigitalStand-by Control
Communication System	Ethernet/ GPRS/ USB

## Ratings in relation to the Input Variation Percentage

$\pm$ 10%	$\pm$ 15%	$\pm$ 20%	$\pm$ 25%	$\pm$ 30%	-35/+15%	-45/+15%
200	125	100	80	60	80	60
250	160	125	100	80	100	80
320	200	160	125	100	125	100
400	250	200	160	125	160	125
500	320	250	200	160	200	160
630	400	320	250	200	250	200
800	500	400	320	250	320	250
1000	630	500	400	320	400	320
1250	800	630	500	400	500	400
1600	1000	800	630	500	630	500
2000	1250	1000	800	630	800	630
2500	1600	1250	1000	800	1000	800
3200	2000	1600	1250	1000	1250	1000
4000	2500	2000	1600	1250	1600	1250
5000	3200	2500	2000	1600	2000	1600
6000	4000	3200	2500	2000	2500	2000

# Efficient Electricity Solutions

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