

ORTEA NE
XT

Innovative solutions for sustainable
power quality since 1969

DISTRIBUTED BY



RL Europe

Your partner in
Power Quality



ENERGY SAVING VOLTAGE OPTIMIZERS



ORTEA NEXT

ORTEA SPA

Via dei Chiosi, 21
20873 Cavenago di Brianza | MB | ITALY
phone: +39 02 95 917 800
email: orteaspa@orteaspa.com

[WWW.ORTEANEXT.COM](http://www.orteanext.com)

DISTRIBUTED BY

RL EUROPE AG

Via Bossi 12/B
CH-6830 Chiasso (TI)
phone: +41 (0)91 683 2255
email: info@rl-europe.ch

[WWW.RLEUROPE.CH](http://www.rl-europe.ch)

OUR BRANDS:



VOLTAGE STABILIZERS
SAG COMPENSATORS
LV TRANSFORMERS AND REACTORS



POWER FACTOR CORRECTION SYSTEMS
ACTIVE HARMONIC FILTERS



ENERGY EFFICIENCY SMART DEVICES



ENERGY SAVING VOLTAGE OPTIMIZERS



ABOUT US

Innovative solutions for sustainable power quality since 1969

Founded in 1969, Ortea is a leader in the design and manufacture of innovative products and customised solutions for power quality and energy efficiency.

Thanks to a network of offices and dealers on all continents, Ortea products are now installed, maintained and operating in more than 100 countries worldwide.

In line with the strategy of creating a global pole of excellence, the new brand Ortea Next is created in 2019, bringing together the 3 historical product brands - Ortea, Icar and Enersolve - in a single concept of integrated technological offer.

Alongside the standard production, Ortea Next develops and produces equipment that can be customised according to the client's specific requirements with extreme flexibility.

The process of renewal and continuous improvement strengthens Ortea Next's leadership as your ideal partner to meet the challenge of the global energy transition.

GLOBAL PRESENCE

Ortea Next solutions are already present in a large number of countries with positive, long-lasting results

Thanks to a network of offices and distributors that are strategically distributed, local, fast, and competent assistance is guaranteed.



ORTEA NEXT

 **RL Europe**
Your partner in
Power Quality

MADE IN ITALY

Production quality, attention to details, design, and reliability represent the added value of Made in Italy. All the Ortea Next solutions are devised, designed, produced, and assembled in Italy.

EXPERIENCE

Founded in 1969, Ortea Next has accumulated experience and expertise that have contributed to continuous growth over time, until becoming an authoritative and innovative company in designing and producing power quality solutions on an international scale.

RELIABILITY

The certified Company Quality System of Ortea Next guarantees the reliability and longevity of the whole range of products, each of which is strictly controlled and tested.

CUSTOMIZED SOLUTIONS

In addition to standard production, Ortea Next is able to develop and produce complete and integrated solutions based on the specific needs of each client with extreme flexibility.

Ortea Next is always at your service to evaluate projects and study customised solutions, assisting and supporting the client at each stage of development.

QUALITY

Ortea Next's certified Company Quality System guarantees that all the production stages are controlled, from the verification of components to the choice of the most suitable packaging depending on the kind of transport.

RESEARCH & DEVELOPMENT

To ensure innovative solutions, Ortea Next continuously collaborates with universities, institutions, and technological partners in researching and developing new products and reliable technologies.

EXPERTISE

The experience and expertise of the Ortea Next technicians assist the customer both in the design and service stage, ensuring solidity and reliability in researching the best solution.

CUSTOMER CENTRIC

Listening to the customer and their requirements allows Ortea Next to continuously improve the service level offered.



CERTIFIED QUALITY

The conviction that product quality and customer satisfaction must be the main requirements of a modern company has led to the adoption of a certified Company Quality System

After having obtained the first ISO 9001 certification in 1996, today our Company Quality System is certified by Lloyd's Register in compliance with the main standards:

ISO9001 Quality management system

ISO14001 Environmental management system

ISO45001 Occupational health and safety management system

This means that Ortea Next guarantees optimised performance in terms of the internal management of processes, engagement on environmental issues, and attention to occupational health and safety

POWER QUALITY SOLUTIONS

Paying little attention to the issue of power quality causes problems and damage to equipment and production processes

Ortea Next offers a complete range of integrated products and solutions for power quality and energy efficiency, thanks to the synergy between the Ortea Next brands, Ortea, Icar, Enersolve, and Powersines.

VOLTAGE VARIATION



VOLTAGE STABILIZERS

SAGs / DIPS



SAG COMPENSATORS

UNPROTECTED LOADS



LV TRANSFORMERS AND REACTORS

EXCESSIVE REACTIVE POWER



PEC SYSTEMS

HARMONIC POLLUTION



ACTIVEHARMONIC FILTERS

WASTE OF ENERGY



ENERGY EFFICIENCY
SMART DEVICES

WASTE OF ENERGY



ENERGY SAVING
VOLTAGE OPTIMIZERS



ENVIRONMENTAL SUSTAINABILITY

Environmental sustainability became a fundamental value and our ecological conscience is increasingly rooted in modern thought.

Thinking and acting "green", means being on the front line in our commitment to the environment. Improving the company reputation, through concrete actions, generates a competitive advantage that grows over time.

ENERGY EFFICIENCY

The goals of environmental sustainability and cost savings can be realised.

Starting from a precise measurement of the energy parameters and an accurate analysis of consumption data and power quality, it is possible to design and implement customised solutions that are targeted at achieving pre-determined goals.

THE POWERSINES SOLUTION

The adoption of solutions for energy savings entails significant benefits in terms of return on investment and corporate environmental sustainability

In 2021, Ortea Next completed the purchase of the “assets” of Powersines Ltd.

The Powersines solutions by Ortea Next guarantee an improvement in the energy efficiency parameters, which translates into a significant reduction in electricity consumption and, even more importantly, in protecting the environment’s eco-systems, contributing to lowering dangerous CO2 emissions in the atmosphere.

ComEC is the ideal solution for commercial, residential, and SME applications



ENERGY SAVING

It dynamically controls and optimises the voltage delivered at all loads, generating an immediate energy saving.



POWER QUALITY

It improves the quality of the power and reduces maintenance costs.

Voltage Optimization

The value of the voltage provided by electricity producers oscillates, on average, in the range of $\pm 10\%$ and is influenced by the demand, quality of transport infrastructure, and distance of the production site from the grid connection point.

These changes in voltage negatively affect the life cycle of the equipment (in particular the electronic equipment) decreasing the MTBF of devices.

Through dynamic monitoring of the voltage value, ComEC ensures a stable value for electrical loads, extending their useful life.

Energy Saving

The electrical equipment available on the market is designed to operate with a range of variable nominal voltages between 220V and 240V.

An input voltage value greater than the nominal one leads to an inefficient use of the equipment with resulting energy waste.

ComEC adjusts the voltage provided, bringing it to the equipment’s maximum operating efficiency level. In this way, it guarantees, depending on the type of load, energy saving of up to 12% with a rapid return on investment.

Power quality

ComEC is a “Power Quality Friendly” system that provides a controlled waveform to all electrical circuits, does not generate harmonic distortions, and reduces system management issues:

- **Voltage optimization:** greater load efficiency.
- **Reduction of electrical stress:** increase in the average useful life of equipment.
- **MTBF reduction:** reduction in indirect maintenance costs.

High reliability

Unlike systems based on solid-state components, the innovative design of ComEC guarantees a high degree of strength and tolerance in disturbed electrical environments.

ComEC is equipped with integrated protection systems: automatic internal bypass, manual bypass, and outlet isolator.

Design and Technology

ComEC is based on an innovative technology that makes it possible to dynamically control the voltage provided to electrical circuits.

The heart of the system is based on an adaptive algorithm with power transformers controlled by a micro-processor.

Fast and easy installation

ComEC is installed downstream of the system’s main circuit breaker.

Its compact size makes it possible to mount on a wall and allows easy connection to power supply switchboards.

The selection of ComEC model to be installed is easy, requiring only knowledge of the power and current parameters of the main circuit breaker.

Support for all loads

ComEC provides an immediate savings benefit. The saving that is obtained with ComEC depends on the type of load and can be as much as 12%.

Load type	% Saving
Discharge lighting systems: fluorescent and HID with electromagnetic reactor	up to 12%
Heating plates (based on use)	10%-12%
Refrigerators, freezers, and refrigeration equipment	6%-12%
Kitchen appliances (coffee machines, kettles, toasters, microwaves)	8%-12%
Split air conditioning and fan units	4%-7%
Inductive loads (motors, pumps, compressors, etc.)	4%
Electronic equipment for computers (including lighting systems with electronic reactors)	1%-3%



COMEC

THREE-PHASE

63-400A



Standard features

Adjusting energy parameters	Three-phase control
Selectable target voltage	from 210V to 254V (L-N) / from 364V to 440V (L-L)
Output voltage accuracy	±1%
Frequency	50Hz ±5% or 60Hz ±5%
Admitted load variation	Up to 100%
Cooling	Natural ventilation (from 35°C aided with fans)
Ambient temperature	-25/+45°C
Storage temperature	-25/+60°C
Max relative humidity	<95% (non condensing)
Admitted overload	120% 2min.
Harmonic distortion	None introduced
Colour	RAL 7035
Protection degree	IP 2X
Instrumentation	On-board display (cloud platform optional)
Installation	Indoor
Bypass system	Electronic automatic by-pass system Emergency manual by-pass system

* Output voltage can be adjusted by choosing one of the indicated values.
Such choice sets the new nominal value as a reference for all the stabiliser parameters.

Type	Input voltage variation	Power	Input voltage range	Max input current	Related voltage	Max current save mode	Eff.	Reg. speed	Dimens. code	Dimensions WxDxH	Weight
	[V]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]		[mm]	[kg]

ComEC											
63	+20	44	Vout +10%	63	400	40	>99	250	P01	400x250x800	60
80	+20	55	Vout +10%	80	400	50	>99	250	P01	400x250x800	65
125	+20	85	Vout +10%	125	400	80	>99	250	P02	540x300x820	75
160	+20	110	Vout +10%	160	400	100	>99	250	P03	600x300x1000	130
250	+20	170	Vout +10%	250	400	160	>99	250	P04	800x600x1800	240
320	+20	220	Vout +10%	320	400	210	>99	250	P04	800x600x1800	280

The values listed in the table are referred to 400V nominal voltage.

INSTANT SAVING

EASY INSTALLATION

COMPACT SIZE

INCREASED MTBF

EXTENDED LIFE CYCLE

ADAPTIVE ALGORITHM

ALL TYPES OF LOADS

APPLICATIONS

- Industry SMEs
- Commercial centres
- Administrative centres/offices
- Sports centres/Gyms
- Hospitals, Clinics, and Rest homes
- Hotels/Restaurants
- Tourist resorts
- Education institutes
- Service stations
- Shops



OUR BRANDS:



VOLTAGE STABILIZERS
SAG COMPENSATORS
LV TRANSFORMERS AND REACTORS



POWER FACTOR CORRECTION SYSTEMS
ACTIVE HARMONIC FILTERS



ENERGY EFFICIENCY SMART DEVICES



ENERGY SAVING VOLTAGE OPTIMIZERS

ORTEA NEXT

**Innovative solutions for sustainable
power quality since 1969**

ORTEA SPA

Via dei Chiosi, 21
20873 Cavenago di Brianza MB | ITALY
phone: +39 02 95 917 800
email: sales@ortea.com
WWW.ORTEANEXT.COM



DISTRIBUTED BY RL EUROPE AG

Via Bossi 12/B
CH-6830 Chiasso (TI)
phone: +41 (0)91 683 2255
email: info@rleurope.ch

WWW.RLEUROPE.CH

The present document is reserved property of ORTEA SpA:

it is compulsory to inform head office and ask for authorisation before proceeding with any release or reproduction. ORTEA SpA will not be held liable or responsible in any way for unauthorised copies, alterations or additions to the next or to the illustrated parts of this document. Any modification involving company logo, certification symbols, names and official data is strictly forbidden.

In order to obtain better performance, ORTEA SpA reserves also the right to alter the products described in this document at any date and without prior notice. Technical data and descriptions do not therefore have any contractual value.