



INNOVATIVE SOLUTIONS FOR SUSTAINABLE  
POWER QUALITY SINCE 1969







### ORTEA SPA

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# ABOUT US

Founded in 1969, Ortea SpA is a leading company in manufacturing and engineering Power Quality solutions

Ortea Next offers a unique range of products and services for **Power Quality** and **Energy Efficiency** of low voltage electrical networks: Voltage stabilisers, Sag compensators, LV Transformers and Reactors, Power factor correction systems, Active harmonic filters and Energy efficiency smart devices. Beside standard production, Ortea Next can be extremely flexible in developing and manufacturing special equipment according to User's specification.



### 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

## QUALITY CERTIFIED

The belief that product quality and customer satisfaction are the core of a modern organisation, led to the implementation of a Certified Company Managing System

Ortea Next Integrated Managing System is approved by Lloyd's Register according to the main Standards:

- **ISO9001** (Quality management systems)
- **ISO14001** (Environmental management systems)
- **ISO45001** (Occupational health & safety management systems).

This means that Ortea Next can ensure that its performance is optimized in terms of internal process management, commitment towards environmental issues and attention to health & safety at work within the frame of a single Managing System.



# OUR MISSION

## To provide a range of products and services of excellence in the field of Power Quality and Energy Efficiency

Through the synergy between its product brands Ortea, Icar, Enersolve and Powersines, Ortea Next designs, manufactures, and maintains integrated and sustainable solutions for power quality and energy efficiency. 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 is well established in the global market

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.

### 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.

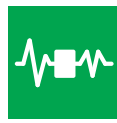
### EXPERTISE

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.





# VOLTAGE STABILISERS

Stable voltage supply independently from input fluctuation is one key feature to ensure electrical efficiency and reliability

The voltage stabiliser is an effective solution able to prevent potentially dangerous situations created by input voltage instability. Voltage stabilisers continuously monitor the incoming mains supply and if the mains voltage rises or drops, they will automatically control the output voltage.

This ensures the voltage reaching the load equipment always remains constant at the required requisite voltage.

## ELECTRO-MECHANICAL DIGITAL VOLTAGE STABILISERS

### VEGA

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $+15\%/-25\%$ ,  $+15\%/-35\%$ ,  $+15\%/-45\%$   
OUT:  $\pm 0.5\%$

Single-phase

**0.3-25kVA**

### ANTARES

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $+15\%/-25\%$ ,  $+15\%/-35\%$ ,  $+15\%/-45\%$   
OUT:  $\pm 0.5\%$

Single-phase

**15-135kVA**

### ORION

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $+15\%/-25\%$ ,  $+15\%/-35\%$ ,  $+15\%/-45\%$   
OUT:  $\pm 0.5\%$

Three-phase

**2-135kVA**

### ORION PLUS

IN:  $\pm 10\%$ ,  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $+15\%/-35\%$ ,  $+15\%/-45\%$   
OUT:  $\pm 0.5\%$

Three-phase

**30-2000kVA**

### SIRIUS

IN:  $\pm 10\%$ ,  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$ ,  $+15\%/-35\%$ ,  $+15\%/-45\%$   
OUT:  $\pm 0.5\%$

Three-phase

**60-6000kVA**

### SIRIUS ADVANCE

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$   
OUT:  $\pm 0.5\%$

Three-phase

**60-4000kVA**

## STATIC DIGITAL VOLTAGE STABILISERS

### GEMINI / GEMINI PLUS

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$   
OUT:  $\pm 0.5\%$

Single-phase

**4-40kVA**

### AQUARIUS / AQUARIUS PLUS

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$   
OUT:  $\pm 0.5\%$

Three-phase

**10-120kVA**

### ODYSSEY

IN:  $\pm 15\%$ ,  $\pm 20\%$ ,  $\pm 25\%$ ,  $\pm 30\%$   
OUT:  $\pm 0.5\%$

Three-phase

**80-4000kVA**







# LV TRANSFORMERS AND REACTORS

Reliability and safety,  
perfect for isolated neutral systems

Using first rate materials and components, Ortea Next designs and manufactures low voltage transformers for a diverse range of applications: Data Center, UPS, non-linear load, rectifiers, photovoltaic application etc. Transformers can either be unprotected or housed inside a metallic enclosure. Although IP21 is the standard construction, other protection degrees are available on request.

Ortea Next designs and produces reactors for power factor correction systems, smoothing inductors, inrush current limiting reactors etc.

# SAG COMPENSATORS

Reduce voltage SAGs outage in industrial processes, especially if automated, and in tertiary sector

SAGs correction up to -50% for 1 min. Correction time: less than 3 millisecs. No battery energy storage required: compared to a UPS, Oxygen solution is specific for voltage SAGs with considerable benefits in terms of:

- Reduced cost
- Less maintenance
- Smaller footprint and occupied space

<b>OXYGEN 10-40</b> <b>IN:</b> ±10% continuous / -40% for 1 minute <b>OUT:</b> ±0.5%	<b>200-3200kVA</b>
<b>OXYGEN K 10-40</b> <b>IN:</b> ±10% continuous / -40% for 1 minute <b>OUT:</b> ±0.5%	<b>200-2000kVA</b>
<b>OXYGEN 10-50</b> <b>IN:</b> ±15% continuous / -50% for 1 minute <b>OUT:</b> ±0.5%	<b>200-3200kVA</b>
<b>OXYGEN K 10-50</b> <b>IN:</b> ±15% continuous / -50% for 1 minute <b>OUT:</b> ±0.5%	<b>200-2000kVA</b>



# ACTIVE FILTERS

Eliminates harmonic currents  
to avoid premature aging of conductors and  
disturbances on sensitive loads

Loads operated by electronic devices are increasingly adopted in more and more industrial and commercial applications.

These loads generate waveform distortions of the current, that become threat for network components and more losses due to the Joule effect.

Active filters achieve higher levels of efficiency in harmonics cleaning.

ORTEA SpA proposes the ACTIVEmatic FA40 to combine a high level of efficiency with flexibility of installation.

60A to 300A units, for three-phase systems with distributed / non-distributed neutral. Possibility of operating several equipments in parallel.

# POWER FACTOR CORRECTION SYSTEMS

Avoid excessive reactive power consumptions and relevant unnecessary waste of energy

The Electricity Authorities, force companies distributing electricity to apply financial penalties to utilities that have a substantial contractual power and low energy cos phi (generally 0,9). Economic benefits due to penalties elimination and the reduction of the "useless" inductive component of the current.

ORTEA SpA designs and manufactures power factor correction systems with or without harmonics block reactors, with standard electromechanical contactors or SCR static fast switches.

## STANDARD POWER FACTOR CORRECTION

Icon	Model	FIX	AUTOMATIC
+	<b>HP10</b> Ue 400-415V   U <sub>N</sub> 415V   THDI <sub>R</sub> ≤12%   THDI <sub>C</sub> ≤50%	<b>10-50kvar</b>	<b>12-1050kvar</b>
	<b>HP20</b> Ue 400-415V   U <sub>N</sub> 460V   THDI <sub>R</sub> ≤20%   THDI <sub>C</sub> ≤70%	<b>5-50kvar</b>	<b>10-1080kvar</b>
	<b>HP30</b> Ue 400-415V   U <sub>N</sub> 550V   THDI <sub>R</sub> ≤27%   THDI <sub>C</sub> ≤85%	<b>5-10kvar</b>	<b>45-1080kvar</b>
≡	<b>VP10</b> Ue 400V   U <sub>N</sub> 400V   THDI <sub>R</sub> ≤27%   THDI <sub>C</sub> ≤85%	<b>15-30kvar</b>	<b>22-990kvar</b>
	<b>VP20</b> Ue 400-415V   U <sub>N</sub> 460V   THDI <sub>R</sub> ≤27%   THDI <sub>C</sub> ≤90%	<b>5kvar</b>	<b>28-744kvar</b>

## POWER FACTOR CORRECTION WITH BLOCKING REACTORS

Icon	Model	FIX	AUTOMATIC
+	<b>FH20</b> Ue 400-415V   U <sub>N</sub> 550V   THDI <sub>R</sub> 100%   I <sub>250Hz</sub> ≤25%   THDV <sub>R</sub> ≤6%   F <sub>0</sub> 180Hz	<b>12-75kvar</b>	<b>10-960kvar</b>
	<b>FH30</b> Ue 400-415V   U <sub>N</sub> 550V   THDI <sub>R</sub> 100%   I <sub>250Hz</sub> >25%   THDV <sub>R</sub> ≤6%   F <sub>0</sub> 135Hz	<b>5-80kvar</b>	<b>10-960kvar</b>
	≡	<b>FV25</b> Ue 400V   U <sub>N</sub> 460V   THDI <sub>R</sub> 100%   I <sub>250Hz</sub> ≤25%   THDV <sub>R</sub> ≤6%   F <sub>0</sub> 180Hz	<b>12-50kvar</b>
<b>FV25V</b> Ue 400V   U <sub>N</sub> 460V   THDI <sub>R</sub> 100%   I <sub>250Hz</sub> ≤25%   THDV <sub>R</sub> ≤8%   F <sub>0</sub> 180Hz			<b>88-600kvar</b>
<b>FV35</b> Ue 400V   U <sub>N</sub> 550V   THDI <sub>R</sub> 100%   I <sub>250Hz</sub> >25%   THDV <sub>R</sub> ≤6%   F <sub>0</sub> 135Hz			<b>60-480kvar</b>





# ENERGY EFFICIENCY SMART DEVICES

It saves electricity, benefits the environment as well as the company's income

One of the factors that most affect energy saving is given by the fact that electrical appliances are usually designed to operate with an input voltage included in range rather than just one nominal voltage. Nevertheless, supplying a device a voltage higher than the rated one implies higher consumption and decrease of the expected life.

Energy efficiency improving: energy saving of between 3% and 15% on the entire energy bill, depending on the type of plant.

<b>ESL-5</b> IN: +10%/-0% / OUT: ±0.5%	<b>45-3200kVA</b>
<b>ESL-10</b> IN: ±10% / OUT: ±0.5%	<b>45-3200kVA</b>
<b>ESL-20</b> IN: ±20% / OUT: ±0.5%	<b>45-3200kVA</b>



# ENERGY SAVING VOLTAGE OPTIMIZERS

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

<b>COM-EC</b>	<b>63-400A</b>
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## General sales conditions



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# ORTEA NEXT

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

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