

Voltage Stabilisers



Founded in 1969, ORTEA SpA is a leading company in manufacturing and engineering voltage stabilisers and magnetic components.

Over forty years in the business and ongoing technical research have made of ORTEA a competitive and technologically advanced company. Close co-operation between design, production and marketing enables to meet the requirements of a constantly growing number of customers.

In 1996 ORTEA joined ICAR Group, made of Italian and European industrial units specialised in manufacturing capacitors and power factor correction systems.

Beside standard production, ORTEA can be extremely flexible in developing and manufacturing special equipment according to User's specification. All this thanks to the experience gained over many years of applied technological development.

Such development includes IT tools that enable the technical staff to elaborate electrical and mechanical designs for each «custom product» on a quick and cost-effective basis.



The belief that product quality and Customer satisfaction are the core of a modern organisation, led to the implementation of an ISO9001:2008 certified Company Managing System.

The achievement of the ISO14001:2004 and OHSAS18001:2007 accreditation was a natural integration in order to optimise the Company's performance, showing at the same time the commitment towards environmental and safety at work issues.



ISO 9001 • ISO 14001
OHSAS 18001





ORTEA is well established in the global market. Thanks to strategically positioned offices and distributors and efficient commercial relations, ORTEA's products are installed and working in a large number of countries.



- ▲ ORTEA headquarters (Italy)
- ▲ ORTEA branches (Russia, Ivory Coast, Kenya, Venezuela)



Antares

single-phase
15-135kVA



Standard features

Selectable output voltage (dip-switch)*	220-230-240V
Frequency	50/60Hz $\pm 5\%$
Admitted load variation	Up to 100%
Cooling	Natural ventilation (aided with fans)
Ambient temperature	-25/+45°C
Storage temperature	-25/+60°C
Max relative humidity	95%
Admitted overload	200% 2 min.
Harmonic distortion	None introduced
Colour	RAL 7035
Protection degree	IP21
Instrumentation	Output digital multimeter
Installation	Indoor
Overvoltage protection	Class II output surge arrestor

* The 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.

Accessories

Interrupting devices
Load protection against over/undervoltage
Manual by-pass line
Input isolating transformer
SPD surge arrestor
EMI/RFI filters
IP54 protection degree for indoor and outdoor installation

Rating in relation to the input variation percentage

$\pm 15\%$	$\pm 20\%$	$\pm 25\%$	$\pm 30\%$	+15%/-25%	+15%/-35%	+15%/-45%
35	25	20	15	25	20	15
45	35	25	20	35	25	20
60	45	35	25	45	35	25
80	60	45	35	60	45	35
100	80	60	45	80	60	45
135	100	80	60	100	80	60



All ORTEA stabilisers are designed and built in compliance with the Low Voltage and Electromagnetic Compatibility European Directives with regard to the CE marking requirements. ORTEA products are built with suitable quality components and that the manufacturing process is constantly verified in accordance with the Quality Control Plans which the Company applies in compliance with the ISO 9001:2008 Standards. The commitment towards environmental issues and safety at work matters is guaranteed by the certification of the Management System according to the ISO14001:2004 and OHSAS18001:2007 Standards. In order to obtain better performance, the products described in the present document can be altered by the Company at any date and without prior notice. Technical data and descriptions do hold therefore any contractual value.

Antares

single-phase
15-135kVA



Antares stabilisers are available for different ranges of input voltage fluctuation.

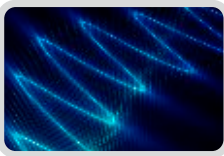
Standard models offer a **double input connection** so that with the same unit two different input variations ($\pm 1.5\%$ / $\pm 20\%$ or $\pm 25\%$ / $\pm 30\%$) can be dealt with.

An **automatic circuit breaker** is provided on the regulation circuit **to protect** against overload and short circuit on the voltage regulator whilst the auxiliary circuit is protected by **fuses**.

The instrumentation consists of a **digital multimeter** installed on the cabinet front panel. The alarms (min/max output voltage, gearmotor lock, internal overheating, regulator overload) are recognizable by means of LEDs on the control card.

The control logic is based on a digital **microprocessor**.

All Antares stabilisers are fitted with the **same control card**, thus simplifying maintenance operations and spare parts storage.



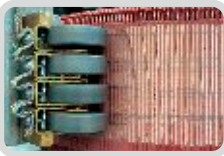
Wide range

- symmetrical: **$\pm 15\%$, $\pm 20\%$, $\pm 25\%$, $\pm 30\%$** (other on request)
 - asymmetrical: **$+15\%/-25\%$, $+15\%/-35\%$, $+15\%/-45\%$** (other on request)
- Output voltage accuracy: **$\pm 0.5\%$** .



Technology

Control logic based on digital **microprocessor** operating with a software specifically developed for Ortea.



Long life

Ortea system voltage regulator with **rollers** (without brushes, which are subject to heavy wear & tear).



Protection

The voltage regulator is protected by a **circuit breaker** with magneto thermal release. The auxiliary circuit is protected by **fuses**.
Overvoltage protection: Class II output **surge arrestor**.



Instrumentation

The digital measuring instrumentation is installed on the front panel and consist of an output **digital multimeter**.

Antares

single-phase
15-135kVA

Type	Input voltage variation range	Rating	Input voltage range	Maximum input current	Output voltage $\pm 0.5\%$	Output current	Efficiency	Speed regulation	Cabinet	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]	Type	[kg]

Input voltage variation range $\pm 20\%/\pm 15\%$ (the values listed in the table are referred to 230V nominal voltage)

25-20	± 20	25	184-276	136		109		12		
35-15	± 15	35	195-265	179	230	152	>98	16	23	180
35-20	± 20	35	184-276	190		152		12		
45-15	± 15	45	195-265	230	230	196	>98	16	31	200
45-20	± 20	45	184-276	245		196		12		
60-15	± 15	60	195-265	307	230	261	>98	16	40	320
60-20	± 20	60	184-276	326		261		12		
80-15	± 15	80	195-265	409	230	348	>98	16	40	390
80-20	± 20	80	184-276	435		348		12		
100-15	± 15	100	195-265	511	230	435	>98	16	51	550
100-20	± 20	100	184-276	544		435		12		
135-15	± 15	135	195-265	690	230	587	>98	16	51	650

Input voltage variation range $\pm 30\%/\pm 25\%$ (the values listed in the table are referred to 230V nominal voltage)

15-30	± 30	15	161-300	93		65		8		
20-25	± 25	20	172-288	116	230	87	>98	10	23	180
20-30	± 30	20	161-300	124		87		8		
25-25	± 25	25	172-288	145	230	109	>98	10	31	200
25-30	± 30	25	161-300	156		109		8		
35-25	± 25	35	172-288	203	230	152	>98	10	40	320
35-30	± 30	35	161-300	217		152		8		
45-25	± 25	45	172-288	261	230	196	>98	10	40	390
45-30	± 30	45	161-300	279		196		8		
60-25	± 25	60	172-288	348	230	261	>98	10	51	550
60-30	± 30	60	161-300	373		261		8		
80-25	± 25	80	172-288	464	230	348	>98	10	51	650

Antares

single-phase
15-135kVA

Type	Input voltage variation range	Rating	Input voltage range	Maximum input current	Output voltage $\pm 0.5\%$	Output current	Efficiency	Speed regulation	Cabinet	Weight
	[%]	[kVA]	[V]	[A]	[V]	[A]	[%]	[ms/V]	Type	[kg]

Input voltage variation range **+15%/-25%** (the values listed in the table are referred to 230V nominal voltage)

25-15/25	+15/-25	25	172-265	145	230	109	>98	14	23	190
35-15/25	+15/-25	35	172-265	203	230	152	>98	14	31	210
45-15/25	+15/-25	45	172-265	261	230	196	>98	14	40	330
60-15/25	+15/-25	60	172-265	348	230	261	>98	14	40	400
80-15/25	+15/-25	80	172-265	464	230	348	>98	14	51	560
100-15/25	+15/-25	100	172-265	580	230	435	>98	14	51	660

Input voltage variation range **+15%/-35%** (the values listed in the table are referred to 230V nominal voltage)

20-15/35	+15/-35	20	150-265	134	230	87	>98	11	23	200
25-15/35	+15/-35	25	150-265	167	230	109	>98	11	31	220
35-15/35	+15/-35	35	150-265	234	230	152	>98	11	40	340
45-15/35	+15/-35	45	150-265	301	230	196	>98	11	40	410
60-15/35	+15/-35	60	150-265	401	230	261	>98	11	51	570
80-15/35	+15/-35	80	150-265	535	230	348	>98	11	51	670

Input voltage variation range **+15%/-45%** (the values listed in the table are referred to 230V nominal voltage)

15-15/45	+15/-45	15	126-265	118	230	65	>98	9	23	210
20-15/45	+15/-45	20	126-265	158	230	87	>98	9	31	230
25-15/45	+15/-45	25	126-265	198	230	109	>98	9	40	350
35-15/45	+15/-45	35	126-265	276	230	152	>98	9	40	420
45-15/45	+15/-45	45	126-265	356	230	196	>98	9	51	580
60-15/45	+15/-45	60	126-265	474	230	261	>98	9	51	680



Via dei Chiosi, 21
20873 Cavenago di Brianza MB - ITALY

Phone: +39.02.95.917.800

Fax: +39.02.95.917.801

Mail: sales@ortea.com

www.ortea.com