RE3

Electronic voltage stabilisers from 300 VA to 250 kVA

RE3: The fastest and the most accurate electronic regulation system of the market

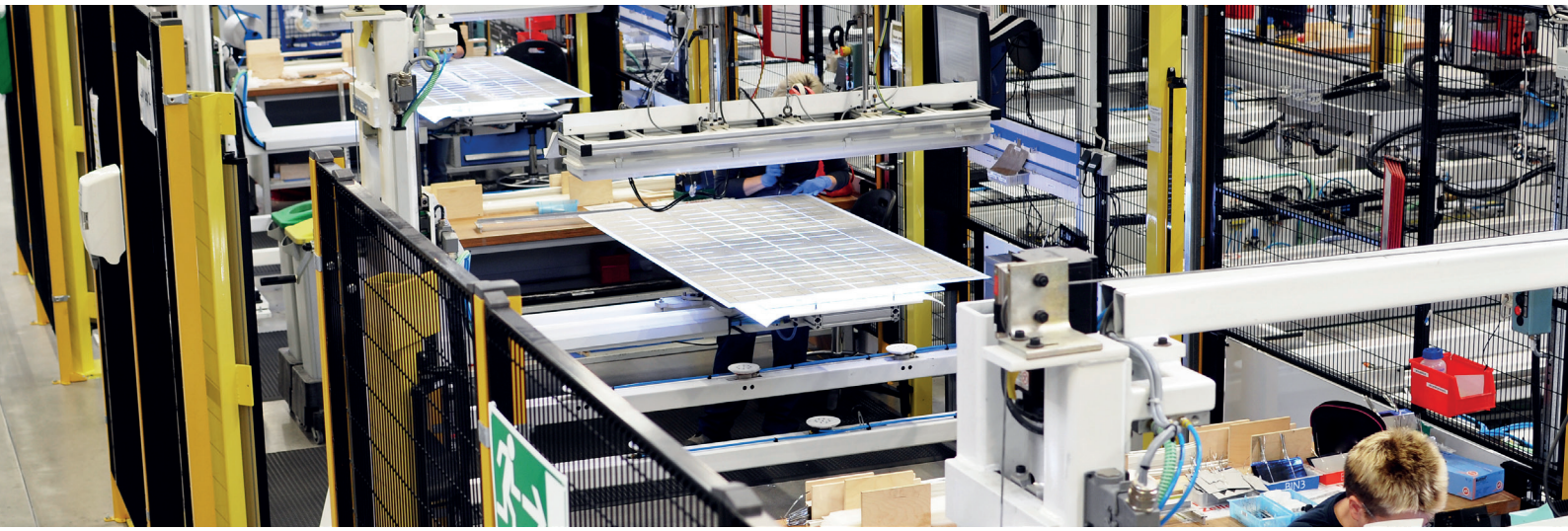
In today's electronic environment, saturated and highly unstable, where fluctuations in the power supply voltage are more than frequent, voltage stabilisers play a very important role in guaranteeing stable voltage to loads more sensitive to such variations.

The Salicru **RE** series of electronic stabilisers, based on a completely static structure of high efficiency, fast reply speed and excellent output precision, are made in single phase or three phase configuration and in a range of powers from 300 VA to 250 kVA.

The three-phase units are conceived with a completely phase-independent regulation in order to avoid possible regulation problems due to imbalance in the loads. Moreover, the units include a static bypass to guarantee the power supply in the event of a possible fault.

Applications: Assured industrial processes

Many are the industrial processes where voltage stability is essential: from a wide range of applications where the numerical control processors and automatons are entrusted with guaranteeing the final result, up to all kinds of calculation centres, computer peripherals, transmission and communications equipment, laboratory equipment, etc.



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Performances

· Power range, single and three-phase, up to 250 kVA.
· Ultra-fast regulation: reply speed under 100 ms.
· Digital control and parameters setting independent per phase.
· Entirely static structure, without moving elements, greater reliability.
· Static bypass, loads always supplied.
· In three-phase units, independent regulation per phase, immune to imbalances.
· Output precision better than ±2%.
· ±15% input regulation margins standard.
· Efficiency > 97%.
· Isolation transformer or ultra-isolation on unit output. (1)
· LCD Display, as standard, from 6 kVA single-phase or 15 kVA three-phase.
· Detection of voltage input or output (max/min) out of margins, as standard. (2)
· Comunication slot. (2)
· Overtemperature detection. (2)
· Do not introduce harmonics, or alter the power factor of the installation.
· Unaffected by line voltage harmonics; stabilisation based on true RMS.
· Stable operation in the event of load and/or voltage variations.
· Highly robust and reliable (high MTBF).
· Overvoltage surge supresion protection.
· More than 80% recyclable materials.

(1) Option
(2) For models with LCD display

Display

1. LCD 2x16 characters.
2. Navigation keys.
3. LEDs (alarm, bypass, normal operation and communications).

Options

· Relay interface.
· Manual maintenance bypass.(1)
· Protection of high-low voltage with manual or automatic reset (output voltage disconection when out of range).
· Isolation transformer (T).
· Ultra-isolation transformer (NS).
· Current transformers for measures of current, power (kVA / kW) and power factor.
· Overload protection. (1)
· Telemanagement card. (1)
· Extended communications module. (1)
· Extended ambient operating temperature from -20ºC.
· Input & output circuit breaker.

(1) Models with display

Technical support and service

· Pre-sale and after sales advisory service.
· Numerous maintenance and remote maintenance options.

Range

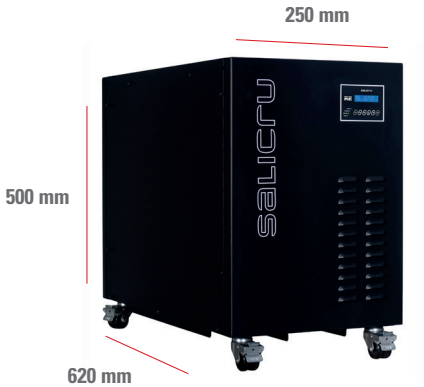
MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
RE-309-2	606AY000390	300	280 × 210 × 185	6
RE-609-2	606BY000390	600	280 × 210 × 185	6
RE-1009-2	606CY000390	1000	280 × 210 × 185	9
RE-2009-2	606EG000390	2000	390 × 250 × 195	19
RE-3009-2	606EY000390	3000	390 × 250 × 195	22
RE-4509-2	606FW000390	4500	460 × 300 × 220	35
RE3 M 6-2	6A3AA000001	6000	620 × 250 × 500	44
RE3 M 9-2	6A3AA000002	9000	620 × 250 × 500	58
RE3 M 12-2	6A3AA000003	12000	590 × 340 × 580	67
RE3 M 15-2	6A3AA000004	15000	590 × 340 × 580	69
RE3 M 20-2	6A3AA000005	20000	590 × 340 × 580	103
RE3 M 25-2	6A3AA000006	25000	590 × 340 × 580	127
RE3 M 30-2	6A3AA000007	30000	590 × 340 × 580	154
RE3 M 40-2	6A3AA000008	40000	590 × 340 × 580	170
RE3 M 50-2	6A3AA000009	50000	590 × 340 × 580	186

230 V 50 Hz input / 230 V 50 Hz output and ± 15% input range. For models with isolation transformer and other configurations, consult. Others powers upon request.

MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
RET 3-4	606EY050390	3000	680 × 340 × 240	32
RET 6-4	606GU050390	6000	680 × 340 × 240	61
RET 9-4	606IA050390	9000	630 × 390 × 520	68
RE3 T 15-4	6A3BA000001	15000	905 × 460 × 705	80
RE3 T 20-4	6A3BA000002	20000	905 × 460 × 705	117
RE3 T 30-4	6A3BA000003	30000	905 × 460 × 705	164
RE3 T 45-4	6A3BA000004	45000	905 × 460 × 705	225
RE3 T 60-4	6A3BA000005	60000	905 × 460 × 705	260
RE3 T 75-4	6A3BA000006	75000	850 × 615 × 1315	317
RE3 T 100-4	6A3BA000007	100000	850 × 615 × 1315	343
RE3 T 125-4	6A3BA000018	125000	850 × 615 × 1315	438
RE3 T 150-4	6A3BA000015	150000	850 × 615 × 1315	650
RE3 T 200-4	6A3BA000016	200000	850 × 815 × 2115	850
RE3 T 250-4	6A3BA000050	250000	850 × 815 × 2115	1050

3 x 400 V 50 Hz input / 3 x 400 V 50 Hz output and ± 15% input range. For models with isolation transformer and other configurations, consult. Others powers upon request

Dimensions



RE3 M 6/9-2

RE3 T 75÷150-4

RE3 T 200/250-4

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Technical specifications

MODEL		RE3
INPUT	Single phase voltage	120 V, 220 V, 230 V, 240 V
	Three-phase voltage	3 × 208 V / 3 × 220 V / 3 × 380 V / 3 × 400 V / 3 × 415 V (3F + N) (1)
	Regulation range	±15% (2)
	Frequency range	47.5 ÷ 63 Hz
OUTPUT	Single phase rated voltage	120 V, 220 V, 230 V, 240 V
	Three-phase rated voltage	3 × 208 V / 3 × 220 V / 3 × 380 V / 3 × 400 V / 3 × 415 V (3F + N) (1)
	Accuracy	Better than ± 2%
	Total harmonic distortion (THDv)	Nil
	Frequency	48 ÷ 63 Hz
	Response time	<100 ms
	Performance	> 97%
	Admissible overloads	200% for 1 minute
BYPASS	Type	Static
GENERAL	Ambient temperature	-10º C ÷ + 45º C (2)
	Relative humidity	Up to 95%, non-condensing
	Maxium operating altitude	2400 m.a.s.l.
	Cooling	Natural or forced depending on power rate
	Acoustic noise at 1 metre	< 45 dB(A)(3)
	Mean time between failures (MTBF)	60,000 hours
	Mean time to repair (MTTR)	30 minutes
	Electrical noise attenuation on common mode	With isolation transformer > 40 dB / With ultra-isolation transformer > 120 dB
STANDARDS	Safety	UNE EN IEC 61558-2-12; UNE EN IEC 61558-2-13
	Electromagnetic compatibility (EMC)	UNE EN IEC 62041
	Corporate cerification	ISO 9001, ISO 14001, ISO 45001

(1) Ask for other setting
(2) Other ranges under request
(3) <65 dB(A) for models with forced ventilation