



STABILIZERS POWER CONDITIONERS

RT/RTF RL/RLF

Electronic Servo

SX

Solid State

Standard features

- ▶ Ultra fast response
- ▶ Very high efficiency
- ▶ Low waveform distortion
- ▶ Spike suppression
- ▶ Low internal impedance for high surge currents
- ▶ Single phase or three phase models, on three phase models each phase regulated separately
- ▶ Input tapplings (RT/F models)
- ▶ Transverse mode interference suppression (SX models)
- ▶ EMC compatibility
- ▶ CE marked

Options

- ▶ Oil immersed versions (outdoor)
- ▶ Common mode and/or transverse mode interference suppression (power conditioners)
- ▶ True RMS measuring
- ▶ Lightning arrestors
- ▶ High/low voltage, low freq., phase rot./failure protection
- ▶ Volt- and ammeters
- ▶ Input/output circuit breaker
- ▶ Bypass switch
- ▶ Static 3-wire balancing transformer
- ▶ Soft start and soft stop
- ▶ Remote sensing
- ▶ Power factor compensation

Statron range of stabilizers for single phase or three phase application with electronic servo control or the solid state design based on a unique low distortion inductive power concept using a twin transductor circuit. All built for operation in harsh conditions, hundreds of models to best fit your requirement.

Type	Nominal power (models)	Input voltage variation (for output accuracy $\pm 0.5\%$)			Input voltage variation (for output accuracy $\pm 5.0\%$)		
		symmetric	tap low	tap high	symmetric	tap low	tap high
RT	0.8 – 2600 kVA	$\pm 25\%$	-35 to +16%	-16 to +35%	-29 to +31%	-39 to +22%	-20 to 41%
RTF	4.5 – 4000 kVA	$\pm 25\%$	-35 to +16%	-16 to +35%	-29 to +31%	-39 to +22%	-20 to 41%
RL	5.8 – 4900 kVA	$\pm 25\%$	-	-	-29 to +31%	-	-
RLF	8.7 – 7350 kVA	$\pm 25\%$	-	-	-29 to +31%	-	-
SX	1.4 – 360 kVA	$\pm 15\%$	-20 to +10%	-	$\pm 20\%$	-25 to +15%	-

Technical characteristics – Stabilizer		RT/RL	RTF/RLF	SX
Stabilizer construction type		Electromechanical design, servo driven, with natural cooling (RT with input taps)	Electromechanical design, servo driven, with forced cooling (RTF with input taps)	Solid state design, no semiconductors or moving parts in power circuits, natural cooling
Nominal voltage (1ph)	VAC	H: between 200 and 254 VAC L: between 100 and 127 VAC		
Nominal voltage (3ph, 4 wire)	VAC	H: between 346 and 440 VAC (star-connected) L: between 173 and 220 VAC (star-connected)		
Nominal power	kVA	see table above*		
Input voltage variation		see table above*		
Output accuracy		1ph: 0.5% or 5.0% 3ph: 0.5% or 5.0% maintained on each phase, line to neutral		
Correction time to reduce a 10% change to 2%	sec	0.15 to 1.0 sec, depending on size		0.06 to 0.3 sec depending on size
Waveform distortion	THD	negligible		$\leq 2.5\%$
Frequency	Hz	47 to 65 Hz		50 or 60 Hz, $\pm 2\%$
Power factor		any load power factor		any pf lag. to 0.95 lead
Surge rating		10 $\times I_n$ for 2 sec 3 $\times I_n$ for 1 min 2 $\times I_n$ for 5 min		10 $\times I_n$ for 2 sec 5 $\times I_n$ for 30 sec 2 $\times I_n$ for 5 min
Efficiency	%	between 98 and 99.5%		between 94 and 96%
Operating conditions	$^{\circ}\text{C}$ RH m	-15 to +45 $^{\circ}\text{C}$ (up to 70 $^{\circ}\text{C}$ optional) $\leq 95\%$ humidity (non condensing) ≤ 1000 m asl		
Audible noise	dB(A)	less than 40 dB(A) at 1 m distance		
Enclosure		steel floor standing cabinet built to IP20 protection in two tone grey		
Dimensions and weight		depending on model*		
Spike suppression		Metal oxide transient voltage suppression		
Interference suppression		optional		transverse mode std.
Standard alarm		-	fan failure audible alarm, unit operates at reduced power	-
Main applicable standards	CE	EMC directive: 89.336.EEC Low voltage directive: 73.23.EEC		
Quality standard		ISO 9001/14001		

***For the selection of a specific model and technical data please consult our Stabilizer Data Sheet or contact the nearest Statron Office or Agent which can be found under www.statron.com**

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