

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 tapings (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
- Other options on request

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 | | Electro-mechanical design, servo driven, with natural cooling (RT with input taps) | Electro-mechanical 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: Low voltage directive: | 89.336.EEC 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