

## Energysaver

Energy Saving  
Converter/Stabilizer

ES-S (1ph)

ES-T (3ph)



Ecosaver shown with optional power meter

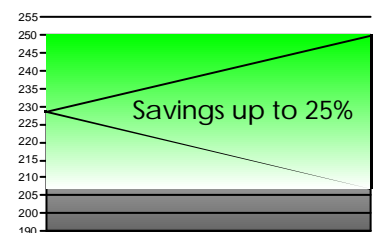
Statron ES range of **Energysavers** designed to save energy by lowering and stabilizing the output voltage. By converting the supply from typically +5% to a stable -10% a power saving of up to 25% can be achieved. Fluorescent and other forms of lighting operated at the lower end of their design voltage will not only save power but prolong the life of such equipment.

### Standard features

- Low internal impedance for high surge currents
- Single phase or three phase models
- Ultra fast response
- Low waveform distortion
- Very high efficiency
- Input tapings
- Transverse mode interference suppression
- Spike suppression
- EMC compatibility
- CE marked

### Options

- Common mode and/or transverse mode interference suppression (power conditioners)
- Lightning arrestors
- High/low voltage, low freq., phase rot./failure protection
- Volt- and ammeters and power meters (as shown in the picture)
- Input/output circuit breaker
- Power factor compensation for additional energy saving
- RMS voltage control
- Static 3-wire balancing transformer
- Other options on request



Type	Output current	kVA@ 220VA C	kVA@ 380VA C	Single Phase Models Dimension (mm)				Three Phase Models Dimension (mm)			
Type		1Ph	3Ph	W	D	H	Wt kg	W	D	H	Wt kg
ES 02	32	7	21	395	245	213	27	450	255	550	79
ES 04	63	14	42	295	420	395	60	415	630	1010	232
ES 06	119	26	78	385	670	285	60	415	630	1010	232
ES 08	237	52	157	475	765	430	110	565	1025	1605	585
ES 10	475	104	313	565	1150	815	230	1200	1150	1605	880
ES 12	712	157	470	565	1150	1605	500	1400	1025	1605	1450
ES 14	950	209	627	565	1150	1640	593	1705	1150	1640	1780
ES 16	1424	313	940	565	1150	2000	900	1755	1150	2000	2700
ESF 06	182	40	120	385	670	285	60	415	630	1010	232
ESF 08	356	78	235	565	1025	815	120	565	1025	1605	585
ESF 10	532	117	350	565	1150	1605	235	1200	1150	1605	880
ESF 12	800	176	526	565	1150	1640	500	1400	1025	1605	1450
ESF 14	1068	235	705	565	1150	2000	593	1705	1150	1640	1780
ESF 16	2374	522	1567	565	1150	1700	900	1705	1150	2000	2700

Other models up to 4000kVA available on request

Technical characteristics			
		ES	ESF
Stabilizer construction type		Electro-mechanical design, servo driven, with natural cooling	Electro-mechanical design, servo driven, with forced 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	V	+15% to -3%	
Output voltage	V	Adjustable between +3% and -15% of Vnom, normally set to -10%	
Output accuracy		1ph: 1.0% 3ph: 1.0% maintained on each phase, line to neutral	
Waveform distortion	THD	Negligible	
Frequency	Hz	47 to 65 Hz	
Power factor		any load power factor	
Surge rating		10 x I <sub>n</sub> for 2 sec 3 x I <sub>n</sub> for 1 min 2 x I <sub>n</sub> for 5 min	
Efficiency	%	between 98 and 99.5%	
Operating conditions	°C RH m	-15 to +45 °C (up to 70 °C optional) ≤95% humidity (non condensing) ≤1000 m asl	
Audible noise	dB(A)	less than 40 dB(A) at 1 m distance	
Enclosure		steel floor standing cabinets built to IP20 protection in two tone grey	
Spike suppression		Metal oxide transient voltage suppression standard	
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](http://www.statron.com)