

ESSX Energy Saving Regulator

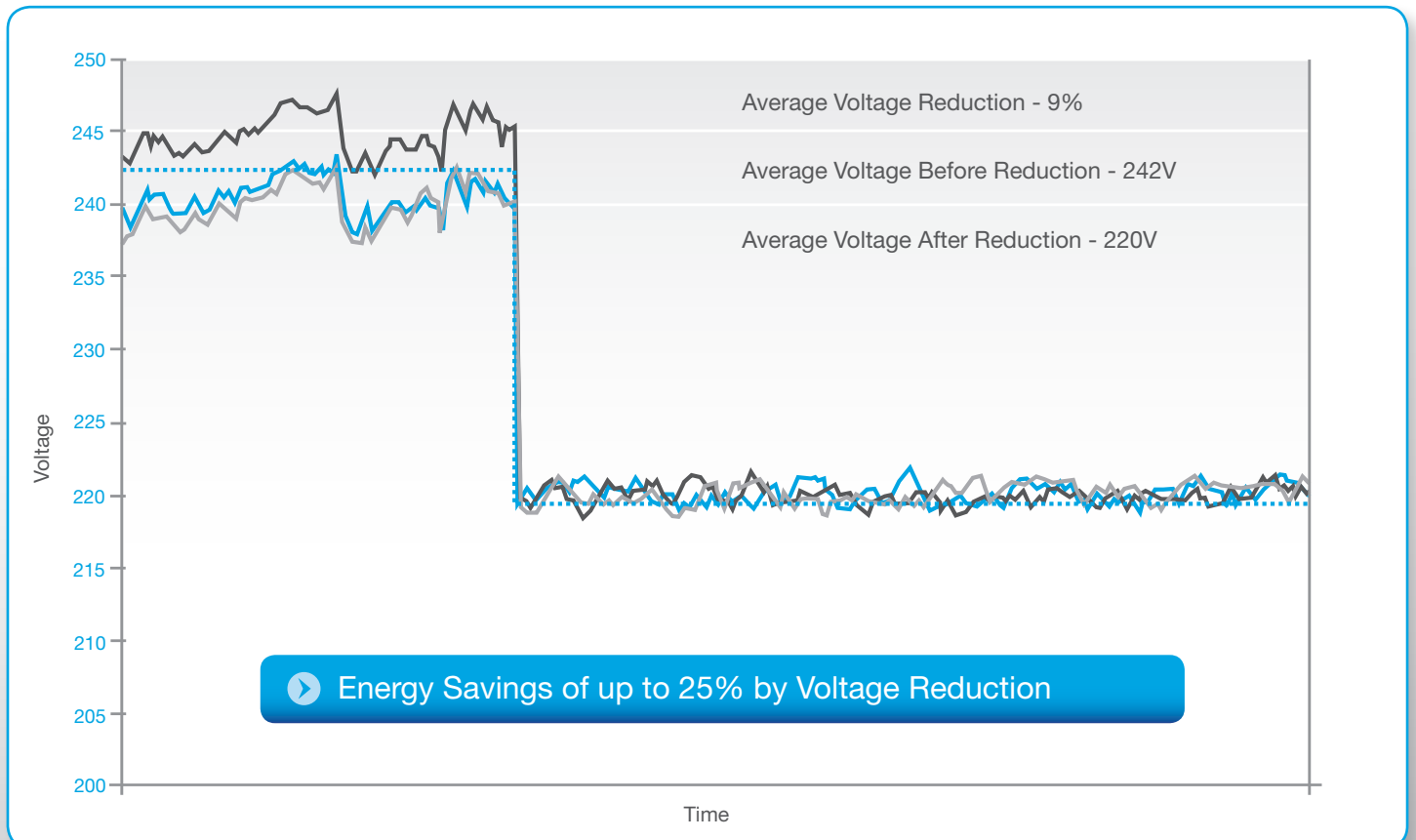


The ESSX Energy Saving Regulators are the latest addition to the PowerSave™ range of innovative, dynamic voltage optimisation products.

As with the ESS range of Energy Saving regulators, they offer the highest possible savings of any voltage optimisation product, with the additional benefits of built in metering, internal equipment protection and a no-break bypass system. This makes them the highest specification product available, delivering energy savings of up to 25%.

By reducing supply voltages to a controlled, site-adjustable level, the ESSX allows equipment to operate at optimum efficiency. The result is lower overall running and ownership costs and reduced carbon footprint – each kWh of electrical energy saved is equivalent to 0.537kg of CO₂.

With deteriorating utilities infrastructure and increasing electricity prices, the PowerSave™ ESSX ensures a safe and stable supply voltage while helping organisations reduce costs and contribute towards their Carbon Reduction Commitments.



ESSX Energy Saving Regulator



▶ Specification for Three Phase ESSX

Voltage Range	Up to 12.5% reduction
Output Voltage	Site-adjustable 346V to 415V (factory set at 380V)
Output Accuracy	±1%
Output Setting	Linear with independent phase control
Maximum Input Voltage	440V (others upon request)
Power Rating	32A to 400A
Supply Frequency	47Hz to 65Hz
Waveform Distortion	None
Efficiency	>99% at full load
Transient Suppression	Standard 800V peak
Operational Temperature	-5°C to +40°C
Operational Humidity	95% non-condensing
Enclosure	IP21
Warranty	Up to 3 years

Electrical equipment is designed to accept a wide range of input voltages, but if the actual supply voltage is higher than the optimum requirement, the equipment will often consume excess power.

The ESSX range has been specifically designed to allow smaller retail, commercial and industrial power users to benefit from Powersave™ technology, which was previously only available to larger power consumers.

▶ Benefits

The PowerSave™ ESSX is proven, highly efficient and delivers a return on investment with minimal ongoing maintenance requirements.

- Energy savings of up to 25%
- Stable and regulated output even during power dips
- Integral display of input and output voltages and output current
- Internal no-break bypass – allowing no power interruption during maintenance
- Ability to adjust voltage optimisation settings without power interruption or internally accessing equipment
- Internal protection against overloading and overheating

Additional Energy Saving Products

PowerSave™ Energy Saving Transformer (EST): Reduces voltage by between 3% and 12% and is ideal for sites with a reasonably stable voltage supply.

Harmonic Reduction Transformer (HRT): Removes harmful third harmonics from the neutral cable, resulting in overall energy savings.

PowerSave™ Energy Saving Regulator (ESS): Maintains a regulated output where mains supply quality is variable, delivering energy savings of up to 25%.

E&OE issue 1 SD-024: Claude Lyons reserves the right to change specifications without notice due to continual improvements.