

Powersaver



Energy Saving by Voltage Optimisation

Powersaver Three phase transformers



A saving of up to 20% on your electricity bills can be achieved simply by reducing your incoming supply voltages from the UK average level of 242V to a more modest 220V or lower dependent on loads.

In 1995 the statutory supplies voltages across the EEC were harmonized to 230V $\pm 10\%$ (207V to 253V). The full implementation of this change was postponed from 2003. However, the present UK statutory supply is 230V -6% +10% (216.2V to 253.0V).

Manufacturers of equipment to the EU countries have now had 13 years to ensure that their products supplied within the UK and Europe will function correctly at the new voltage levels.

The UK supply voltage, despite all this time has remained at a nominal of 240V phase to neutral with an average of 242V. Yet a 230V linear appliance supplied with 240V will consume approximately 9% more energy than necessary.

With over fifty years experience in the design and manufacture of AC Voltage Stabilisers/Regulators and transformers, Watford Control Instruments have designed the POWERSAVER transformer to reduce site voltages to an optimum level.

The POWERSAVER transformer is supplied in a compact design ideal for retrofitting into existing switchgear rooms. Available with a selection of input voltage ranges to suit your particular site requirements with power ratings up to 4,000kVA.



- **Save up to 20% of your electricity costs**
- **Reduces Carbon Footprint**
- **Contributes to CSR and CRC**
- **12-18 months return on investment**
- **No maintenance**
- **Reduces equipment maintenance costs**
- **Low purchase & installation costs**

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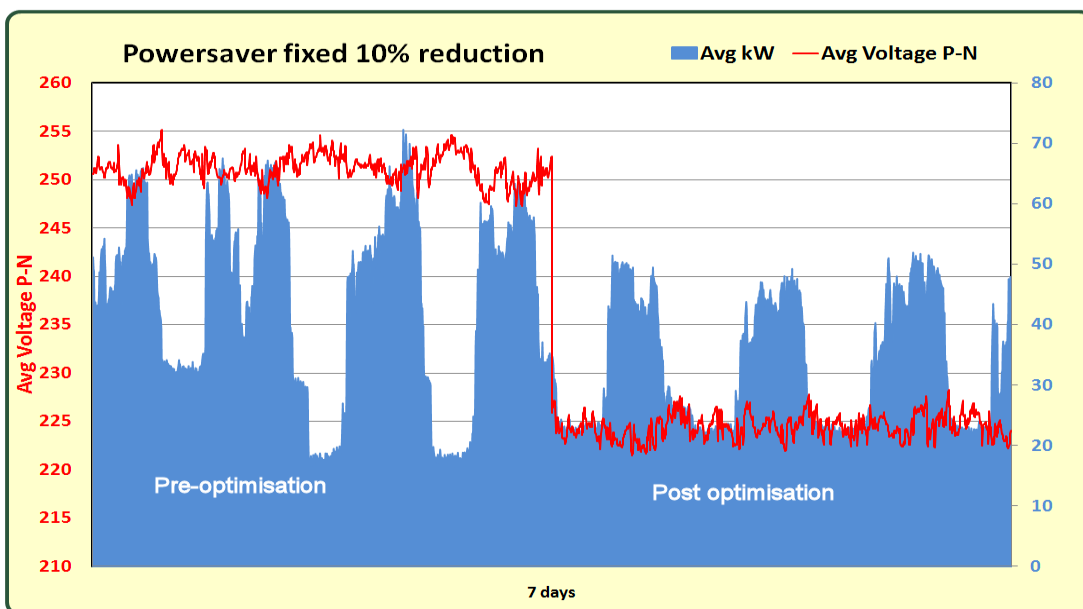
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UK manufacturers of Voltage Stabilisers, Regulators & Conditioners



Three phase Powersaver transformer specification

Output Voltage	Three fixed taps 3%, 5% & 7% (others upon request)
Connections	Anti-phase voltage reduction using 3 phase 3 wire (no neutral connection)
Maximum input voltage	450V 3 phase
Insulation Class	"F"
Temperature Class	"B"
Frequency range	47 to 65Hz
Waveform distortion	None
Efficiency	99.5% at full load
Transient suppression	optional
Surge rating	1000% for 2 seconds, 300% for 1 minute
Operational environment	0°C to 45°C
Manufacturing standards	BS EN60742 BS171 BS EN601558
Enclosure	IP20 (others upon request)
Warranty	3 years

Powersaver	Current per phase / kVA @ 380V	Approx dimensions	Approx weight
<i>Three phase models</i>	<i>3%, 5% & 7% taps</i>	<i>W x D x H(mm)</i>	<i>kg</i>
PST-100/3-5-7	100A / 66kVA	550 x 475 x 550	87
PST-200/3-5-7	200A / 132kVA	550 x 475 x 550	164
PST-400/3-5-7	400A / 246kVA	650 x 550 x 650	250
PST-600/3-5-7	600A / 396kVA	650 x 550 x 650	290
PST-800/3-5-7	800A / 528kVA	850 x 650 x 850	430
PST-1000/3-5-7	1,000A / 660kVA	850 x 650 x 850	450
PST-1200/3-5-7	1,200A / 792kVA	850 x 650 x 850	470
PST-1400/3-5-7	1,400A / 924kVA	1100 x 850 x 1100	540
PST-1600/3-5-7	1,600A / 1056kVA	1100 x 850 x 1100	740
PST-1800/3-5-7	1,800A / 1188kVA	1100 x 850 x 1100	770
PST-2000/3-5-7	2,000A / 1320kVA	1100 x 850 x 1100	840
PST-3000/3-5-7	3,000A / 1,980kVA	1100 x 850 x 1100	1040

Options	
03	Transient suppression
04	Lightning Arrestor
07	Energy metering plus communications
08	Less enclosure
ST	Standard tapped, 3 phase 4 wire star connections maximum size 800A