

Claude Lyons

TSO Industrial Voltage Stabilisers



Using the Claude Lyons TSO Industrial Voltage Stabiliser is the optimal way to regulate poor quality mains supply in adverse environmental conditions. Protecting industrial equipment from Voltage Fluctuations and Line Voltage Drops is frequently ignored causing equipment damage and failure resulting in downtime, delayed deliveries, lost custom and lost of revenue.

Being a totally enclosed unit, available up to **IP65**, makes the TSO Industrial Voltage Stabiliser suitable for outdoor operation or where protection from ingress including dust, sand, insects and moisture is a prime consideration.

The TSO range of Industrial Stabilisers are also available with Energy Saving features, these are for either general or lighting applications. In its basic mode the output voltage is set to a stabilised lower voltage enabling machinery to work at optimum efficiency thus lowering power consumption and running costs.

Attested designs of unequalled build quality provide the highest level of reliability, durability and versatility, with the units' robust electrical and physical construction making them suitable for all areas of industry.

Industry Applications

Voltage Fluctuations

Voltage Drop Correction

Energy Saving

- Pharmaceutical
- Warehousing
- ♦ Transport Depots
- Process Control
- Paper & Printing Processing
- Supermarkets
- ♦ Hospitals

- Food Processing, Manufacturing & Packing
- Mining
- Quarrying
- Maintenance Depots
- Petro-chemical
- Office Blocks

TSO Industrial Voltage Stabilisers

Features

- Totally enclosed design. Up to IP65.
- " Suitable for outdoor operation.
- " High efficiency
- Wide operational temperatures range
- " Independent correction on three phase models

Specification

Stabilised Output

Voltage

Selectable: 220V, 230V, 240V (3 Phase, 380V, 400V, 415V)

Input Voltage Range

Given as a percentage relative to output setting.

(Standard Range)

Tap A -17.5% +7.5%,

(Extended Range)

Tap B ±12.5%, Tap C –7.5% +17.5%

Tap A -21% +9%,

Tap B $\pm 15\%$, Tap C -9% +21%

Alternative tap ranges are available

Supply Frequency

47-65Hz

Output Voltage Accuracy

Better than ±0.5% of set output voltage, zero to full load.

Waveform Distortion

Negligible

Efficiency

98% at full load

Effect of Load PF

None

Surge Rating

1000% for 2 seconds, 300% for 2 minutes

Surge Voltage

Meets IEEE 587 Cat A test

Environment

Current ratings apply -5°C to +45°C. Derate by 2% for each additional °C up to 60°C

Altitude, above 1000m derate by 2.5% for each 500m

Humidity, 95% non-condensing

Options

A wide range of customer specific options are available

Model Ranges

 $\textbf{E\&OE}\ is \textbf{sue}\ 2005 / \textbf{a}\ \textbf{Due}\ \textbf{to}\ \textbf{continuous}\ \textbf{improvements}\ \textbf{Claude}\ \textbf{Lyons}\ \textbf{reserve}\ \textbf{the}\ \textbf{right}\ \textbf{to}\ \textbf{change}\ \textbf{specifications}\ \textbf{without}\ \textbf{notice}$

♦ Single Phase: 5kVA upwards.

◆ Three Phase: 30kVA upwards.

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