

## ENERGY SAVING BY VOLTAGE OPTIMISATION

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 supply voltages across the EEC were harmonised 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).

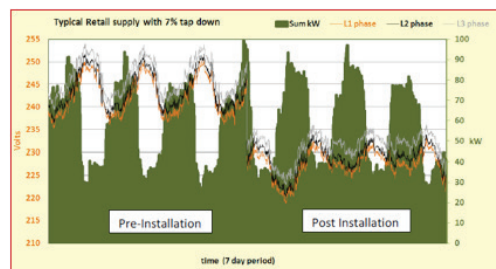
Manufacturers of equipment to the EU countries have now had 13 years to ensure that their products supplied within the UK and Europe will function correctly at the new voltage levels.

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 many years of experience in the design and manufacture of power factor correction equipment, power quality services and energy solutions, PFC Engineering Ltd are delighted to offer the Voltmaster to reduce site voltages to an optimum level.

The Voltmaster 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 Corporate Responsibility**
- **12-18 months return on investment**
- **No maintenance**
- **Reduces equipment maintenance costs**
- **Low purchase and installation costs**



The Energy  
Solution  
Specialists.

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<b>Output Voltage</b>	Three fixed taps 3%, 5% & 7% (others upon request)
<b>Output Regulation</b>	1% zero to full load
<b>Maximum Input Voltage</b>	256V phase to neutral
<b>Insulation Class</b>	"F"
<b>Temperature Class</b>	"B"
<b>Frequency Range</b>	47 to 65Hz
<b>Waveform Distortion</b>	None
<b>Efficiency</b>	99.5% at full load
<b>Transient Suppression</b>	optional
<b>Surge Rating</b>	1000% for 2 seconds, 300% for 1 minute
<b>Operational Environment</b>	0°C to 45°C
<b>Enclosure</b>	IP20 (others upon request)
<b>Warranty</b>	3 years

<b>Voltmaster</b>	<b>Current per phase / kVA 380V</b>	<b>Approx dimensions</b>	<b>Approx weight</b>
<b>Three phase models</b>	<b>3%, 5% &amp; 7% taps</b>	<b>W x D x H (mm)</b>	<b>kg</b>
100/3-5-7	100A / 66kVA	550 x 475 x 550	52
200/3-5-7	200A / 132kVA	550 x 475 x 550	114
400/3-5-7	400A / 246kVA	650 x 550 x 650	179
600/3-5-7	600A / 396kVA	650 x 550 x 650	225
800/3-5-7	800A / 528kVA	850 x 650 x 850	260
1000/3-5-7	1000A / 660kVA	850 x 650 x 850	350
1200/3-5-7	1200A / 792kVA	850 x 650 x 850	400
1400/3-5-7	1400A / 924kVA	850 x 650 x 850	420
1600/3-5-7	1600A / 1056kVA	1000 x 700 x 1000	450
1800/3-5-7	1800A / 1188kVA	1000 x 700 x 1000	480
2000/3-5-7	2000A / 1320kVA	1000 x 700 x 1000	670
3000/3-5-7	3000A / 1980kVA	1000 x 700 x 1000	825
4000/3-5-7	4000A / 2633kVA	880 x 900 x 700	900

<b>Options</b>	
•	Transient Suppression
•	Lightning Arrestor
•	Energy Metering
•	Less enclosure

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