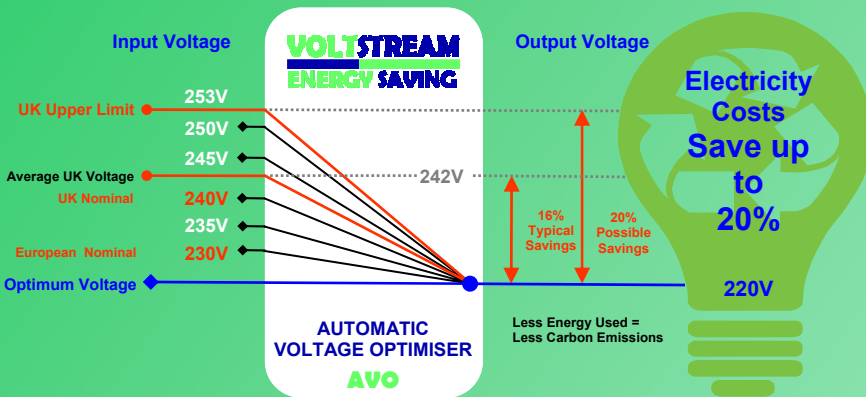


AC Automatic Voltage Optimisers

Cutting Electricity Costs by up to 20%

And ensuring we all do our bit for the Environment

A **VOLTSTREAM** Automatic Voltage Optimiser (AVO) reduces your energy usage by optimising the electricity supply voltage; significantly reducing your ongoing electricity costs and, through the need for less energy, greatly assisting in the quest for reducing your carbon footprint.



In addition, a **VOLTSTREAM** AVO protects electrical equipment against damaging power surges and voltage transients. Through ensuring an optimised supply voltage, your electrical load equipment should be able to operate more efficiently and be more able of obtaining intended design life - with the added benefit of reduced ongoing equipment maintenance costs.

Voltage Optimisation: A UK and Global Phenomenon

The interest in Voltage Optimisation is a growing worldwide trend, being particularly strong in the UK.

With Europe's electrical equipment's normally intended design voltage being 220V, in the UK, where generated supply voltage is typically between 240 to 245V, **VOLTSTREAM** Voltage Optimisers consistently deliver savings of between 10 to 20% on electricity bills.

Under such circumstances **VOLTSTREAM** AVOs deliver a speedy Return On Investment (ROI), especially when their economic justification is further strengthened, on environmental grounds, through the availability of Government backed unsecured loan funding from the Carbon Trust

Voltage Optimisation and Ashley-Edison

With our strong and wide manufacturing base, every **VOLTSTREAM** solution we supply is backed by unrivalled experience we have gained in world voltage control markets over the last 25 years or so.

Over that time, our unique design innovations have set new performance levels and the bread of our offerings have broadened to accommodate the needs and ever demanding requirements of our growing Client base.

VOLTSTREAM



- ✓ Up to 20% Lower Energy Costs and Carbon Emissions
- ✓ Protects electrical and electronic load equipment from damaging voltage transients and surges
- ✓ Optimum voltage extends the life of electrical and electronic load equipment and reduces maintenance costs

VOLTSTREAM Solutions

Available from our specialist resale partners, the **VOLTSTREAM** ranges of Automatic Voltage Optimisers combine exceptional performance and ISO 9000 build quality to deliver unmatched reliability and versatility, all at truly unbeatable prices.

Ranges available include

Supply	Rating Amps	Indoor	Outdoor
Single Phase	20 - 200 Amps	EVS-1	
	20 -100 Amps		OEVS-1
Three Phase	32 - 700 Amps Per Phase	EVS-3	
	40 - 700 Amps Per Phase		OEVS-3
	400 - 2,000 Amps Per Phase	EVSL-3	



AC Automatic Voltage Optimisers

Operating on a 24 / 7 basis, **VOLTSTREAM** Automatic Voltage Optimisers not only save energy and reduce carbon emissions, they also enhance the security of your supply.



FEATURES						
VOLTSTREAM Series		INDOOR			OUTDOOR	
Model		EVS1	EVS3	EVSL3	OEVS1	OEVS3
Supply		Single Phase 2 Wire	Three Phase 4 Wire	Three Phase 4 Wire	Single Phase 2 Wire	Three Phase 4 Wire
Rating	Amps	20 - 200	32 - 700	400 - 2000	20 - 100	40 - 700
	kVA	4.4 - 44	21 - 460	263 - 1316	4.4 - 22	26 - 460
No. of Models		6	10	12	6	9
Features & Protection						
Automatic Voltage Optimisation		✓	✓	✓	✓	✓
Voltage Surge & Spike Protection		✓	✓	✓	✓	✓
Tight Output Voltage Accuracy		✓	✓	✓	✓	✓
High Overload Capability		✓	✓	✓	✓	✓
Start Up Load Protection		✓	✓	✓	✓	✓
Over / Low Voltage Protection		⊙	✓	✓	✓	✓
Input Circuit Breaker		✓	✓	⊙	✓	✓
Inbuilt Manual Bypass Facility		✓	✓	⊙	✓	✓
Phase Failure Protection			✓	⊙		✓
Independent Phase Balancing			✓	✓		✓
Fault Tolerant Regulation Control				✓		
Lightning Surge Protection		⊙	⊙	⊙	✓	✓
Output Circuit Breaker		⊙	⊙	⊙	⊙	⊙
System Metering:						
Operational Status Indication		✓	✓	✓		
Output Volt Meter		✓	✓	✓		
Ammeter				✓		
Frequency Meter			⊙	⊙		
Digital kW/Hour Meter		⊙				
Digital Power Meter		⊙	✓	✓	⊙	✓
Over/ Low Voltage Contacts		⊙	⊙	✓	⊙	⊙

KEY ✓ Standard ⊙ Optional

VOLTSTREAM

Advanced Features & Protections

Automatic Voltage Optimisation

Stepless automated regulation of the incoming voltage to deliver a highly accurate optimised voltage for electronic and electrical load equipment.

Voltage Surge & Spike Suppression

Inbuilt protection against damaging voltage spikes and transients.

High Overload Capability

Ability to support electrical and electronic equipment initial / start up high current draws.

Start Up Load Protection

At the moment of switch ON the Voltage Optimiser will provide a lower output voltage that will then smoothly rise to the optimised output voltage - thereby avoiding any momentary over voltage situations which could possibly damage the connected load.

Over / Low Voltage Protection

Ability to configure the Voltage Optimiser, if required, to shutdown in the event of the incoming voltage supply going outside the normal input window of 323 to 437V / 187 to 254V AC or, via the optional 'no-volt' interface, notify any building BMS or monitoring system.

Inbuilt Manual Bypass Facility

Ability to manually power down the Voltage Optimiser, transferred the load directly onto the mains. Useful when performing maintenance on the system, or in the highly unlikely event of a system malfunction.

Phase Failure Protection

Any failure of phases on a three phase supply will be immediately detected and alarmed accordingly. The system will automatically power down to protect the load side equipment.

Independent Phase Balancing

On Three Phase systems each phase voltage remains optimised, irrespective of load unbalance, even for situations where a 100% load imbalance may exist.

Fault Tolerant Regulation Control

In the unlikely event of a phase control module failure a parallel module will take over control with no loss in system capacity. Especially useful in extremely critical load applications.

Lightning Surge Protection

Protection against extremely high surges and transients caused by lightning strikes on the supply