



Load types

Voltage as a Service (VAAS)TM is an energy-saving service solution for regulating and optimizing the voltage supplied to electrical equipment to the optimal level for efficient operation. The purpose of VAAS is to reduce energy consumption, lower electricity bills, and decrease carbon emissions by ensuring that electrical devices operate at their most efficient voltage level.

Which load types may benefit

Voltage as a Service (VAAS)TM may be used in a wide range of Commercial and Industrial facilities, where these types of loads are typical:

Electric Motors (AC Induction)	Battery Chargers
Lighting (Fluorescent)	IT Equipment (Servers, Switches)
Lighting (LED)	Conveyor Systems
Heating, Ventilation, Air Conditioning (HVAC)	Water Heaters
Transformers	Electric Heaters
Pumps (Centrifugal)	Air Handling Units
Compressors (Air)	Elevators & Escalators
Refrigeration Units	Microwave Ovens (Industrial)
Fans	Extruders
Power Supplies	Milling Machines
Uninterruptible Power Supplies (UPS)	CNC Machines
Industrial Ovens	Laboratory Equipment
Welders	

The percentage energy savings are determined by the voltage sensitivity and energy consumption patterns for each type of equipment.

How VAAS Works

VAAS typically involves the installation of a Voltage Optimisation Device (VOD) and remote cloud metering in the electrical distribution system. These devices are typically installed at various points in the system, for example:

1. **At the Point of Supply:** Installing the device at the main incomer to optimise the voltage for the entire facility. This is the typical application, as it covers the entire facility with one installation.
2. **At Sub-Distribution Boards:** Optimising voltage for specific areas or sections within a facility.

The VOD monitors and adjusts the incoming voltage to the optimal level for equipment.

In summary, VAAS provides the right voltage to electrical equipment, ensuring efficiency, cost savings, and environmental benefits while maintaining equipment performance and longevity.

For further information, contact us at sales@vaasco.net

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