



## Features

- Patented VoltMiser® Power Reduction Technology
- **Automatic Light Level Control**
- Phase Loss Protection
- Under Voltage Protection
- **Compatible with HID & HPS Lamps**
- 99 % Operating Efficiency
- **Control From the Lighting Panel**
- Compact Size and Flexible Mounting
- **Approved by Major Lamp and Ballast Manufacturers**
- QPS Safety Certified

## THEORY AND APPLICATION

**VoltMiser®** Lighting Controller features a unique patented technology. It operates on the well-proven principle that lamps can meet Corporate desired light levels while saving money for the facilities. The **VoltMiser®** provides automatic power reduction while maintaining predetermined light levels. **VoltMiser®** is designed to reduce lighting energy consumption by as much as 25% in HID (High Intensity Discharge) lamps. These lights are found most commonly in commercial and industrial spaces. **VoltMiser®** is applicable in retrofits as well as new installations. Since control is provided at the lighting panel, no extensive rewiring of fixtures is required. The units are also very compact, requiring minimum space.

The **VoltMiser®** was developed by EG Energy Controls Ltd, a leading manufacturer of energy savings devices with extensive experience in lighting, demand and power factor control. **VoltMiser®** technology was engineered to meet required criteria of major Lamp and Ballast manufacturers of HID and HPS lamps.

### How Does VoltMiser Operate?

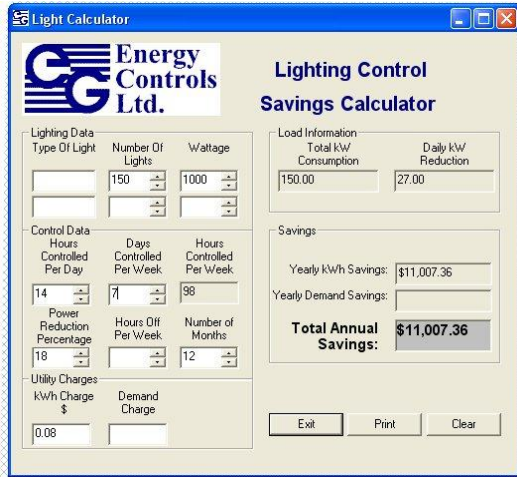
The **VoltMiser®** system provides 0%, 12%, 18% and 25% power reduction to the lighting panels without the need for individual circuit rewiring. Since the system employs an auto-transformer, it is considered to be the most efficient and safest method of step voltage control. It sustains a perfect sine-wave form and does not create any harmonics in the power system.

### Why Use VoltMiser®?

The savings that can be achieved with **VoltMiser®** are in addition to those savings that have been obtained using energy efficient lamps and fixtures. In combination with those methods, savings of 40% are possible. The reduction of the lamp operating temperature results in a corresponding reduction in the cooling system requirements. **VoltMiser®** is designed for diverse types of applications ranging from small commercial sites, consuming as little as 50kW, (65A) to large facilities that may use multiple controllers of up to 150kW (200A) each and consuming several megawatts of power.

# LOAD PROFILE

# SAVINGS CALCULATOR



Store A - Lighting Load 150kW, **Savings - \$ 11,007.00**  
 Store B - Lighting Load 100kW, **Savings - \$ 7,338.00**  
 Store C - Lighting Load 75kW, **Savings - \$ 5,503.00**

Savings are based on the following data:

- Average power reduction - 18%
- Energy Cost per kWh - \$ 0.08
- Hours of Operation - 14/Hours, 7 Days
- Hours Controller per Week - 96

\* Savings will vary depending on store operation hours.

## SPECIFICATIONS

### Input Voltage

600/347 480/277 208/120 VAC

### Power Ratings

50/75/100/150/200/250 KVA

### Power Reduction

HID - 12/18%/25%; HPS 10/15/20%

### Lumen Reduction

HID 20% @ 15% Power Reduction

### Lamp Warm Up

15 Minutes

### Miscellaneous Data

Working Temperature 7C-40C (45F-104F)

Storage Temperature 0C-55C (32F-131F)

### Enclosure

Steel Cabinet (NEMA 12)

### VoltMiser Dimensions

D-8" x W-24" x H-24"

### Transformer Dimension

D-20" x W-21" x H-27"

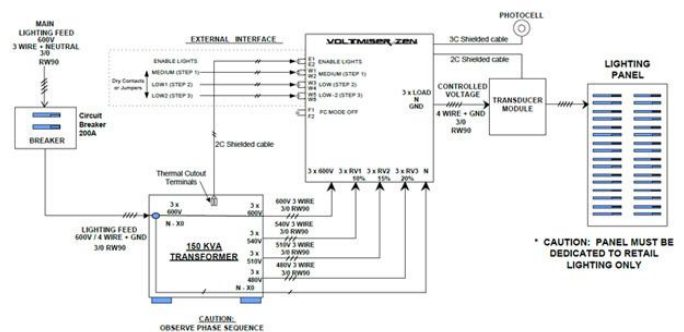
**Safety Certification** - QPS (UL/CSA equivalent)

## CONSIDERATIONS

In order to implement the installation of a **VoltMiser®** Lighting Controller, the following steps are to be considered:

- What are the lighting zones that will be controlled?
- All lighting zones must be on 1 dedicated panel
- The circuit breaker supplying the transformer must be rated for the lighting load

## CONNECTION DIAGRAM



## Contact Information

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EG Energy Controls Product Line

Energy Surveillance System

Demand Controller

EG Brite Fluorescent Fixture

VoltMiser Lighting Controller

Not All Energy Management Systems Were Created Equal.

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