



Features

- Patented VoltMiser® Power Reduction Technology
- **Reduce Energy Usage on Lighting by 25%**
- Phase Loss Protection
- **Under Voltage Protection**
- Compatible with HID and HPS Lamps
- **99 % Operating Efficiency**
- Control From the Lighting Panel
- **Approved by Major Lamp and Ballast Manufacturers**

THEORY AND APPLICATION

The **VoltMiser®** Lighting Controller features a unique patented technology.

The **VoltMiser®** provides automatic power reduction by means of an auto-transformer. **VoltMiser®** is designed to reduce energy consumption by as much as 25% in HID (High Intensity Discharge) lamps. These lights are found most commonly in warehouse, 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, a leading manufacturer of energy savings devices with extensive experience in lighting, demand and power factor control. **VoltMiser®** technology was engineered in conjunction with major Lamp and Ballast manufacturers of HID and HPS lamps to ensure compliance with manufacturers specifications. This system has major lamp and ballast approvals.

How Does VoltMiser Operate?

The **VoltMiser®** system provides 0%, 12%, 18% and 25% power reduction to the lighting panel. 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.** **VoltMiser®** is designed for diverse types of applications ranging from small commercial sites, consuming as little as 25kW, (30A) to large facilities that may use multiple controllers of up to 150kW (200A) each and consuming several megawatts of power.

LIGHTING LOAD

SAVINGS ON LIGHTING CONTROL

The screenshot shows a software window titled "Light Calculator" from Energy Controls Ltd. The main heading is "Lighting Control Savings Calculator". It is divided into several sections:

- Lighting Data:** Type Of Light (HID), Number Of Lights (50), Wattage (1000).
- Control Data:** Hours Controlled Per Day (24), Days Controlled Per Week (7), Hours Controlled Per Week (168), Power Reduction Percentage (25), Hours Off Per Week, Number of Months (12).
- Utility Charges:** kWh Charge (\$ 0.10), Demand Charge.
- Load Information:** Total kW Consumption (50.00), Daily kW Reduction (12.50).
- Savings:** Yearly kWh Savings (\$10,920.00), Yearly Demand Savings, Total Annual Savings (\$10,920.00).

Buttons for Exit, Print, and Clear are at the bottom.

Store A - Lighting Load 150kW, Savings - \$ 32,760.00
Store B - Lighting Load 100kW, Savings - \$ 21,840.00
Store C - Lighting Load 50kW, Savings - \$ 10,920.00

Savings are based on the following data:

- Maximum power reduction - 25%
- Energy cost per kWh - \$ 0.10
- Hours of operation - 24/Hours, 7 Days
- Hours controlled per week - 168

* Savings will vary depending on facility operation hours.

SPECIFICATIONS

Input Voltage

600/480/347/277/208/120 VAC

Power Ratings

25/50/75/100/150 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

INSTALLATION



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Contact Information

EG Energy Controls Products

VoltMiser Lighting Controller

DemandMiser- Demand Controller

ESS- Energy Surveillance System

PowerMiser- Variable Speed Drive

EG Brite- Fluorescent Fixtures

Not All Energy Management Systems Were Created Equal.