Energy Saver Solutions

VMEPL
Integrated Power Solutions

INTRODUCTION

- Energy cost contributes to the total product cost.
- Energy consumption has become National and Global priority.
- Electrical energy is very important due to global warming and economic destruction.
- Huge gap between demand and supply.
- Shortage in electrical energy results in implementation of various Energy Conservation measures.

NEED FOR ENERGY SAVING

- kW Reduction
- National Interest
- Green Environment

ROLE OF Es25 IN ENERGY MANAGEMENT

- Es25 INSTALLATION - 40 MW
- HOURLY SAVINGS - 8 MW
- MONTHLY SAVINGS - 0.5 MILLION UNITS
- YEARLY SAVINGS IN RUPEES - 3,26,000.00
- EQUIPMENT LIFE TIME SAVINGS - 6.5 MILLION

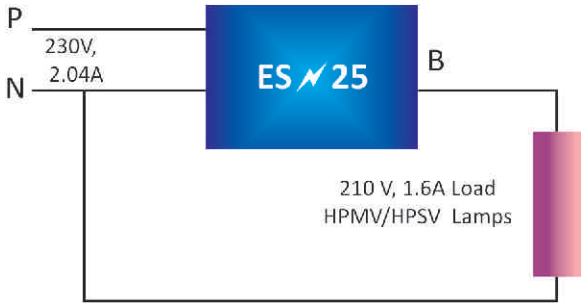
WORKING PRINCIPLE

How ES25 works?

- All electrical equipments draw power and convert them into output energy. In the process of conversion, there will be associated power sources. Most of the equipments draw excess energy than required in the output demand. The excess cannot be used any more.
- The lesser the wattage loss, the more will be the useful power. Hence it only monitors the condition and feed the equipment the exact power required, we would be able to avoid losses and save energy.
- ES25 is a high efficiency device, which optimizes the voltage (Static or dynamically) as the energy consumed increases in approximately square of input voltage, hence, the output energy would reach a minimum, beyond which the energy consumed will be wasted.

BLOCK DIAGRAM

The diagram shows energy saving high efficiency coil system. The main winding A and secondary winding B, which is the inverse, phase energy saving winding. When the supply current passes through winding A, magnetic restriction occurs in winding B as B is connected in series to load, the energy induced by the magnetic restriction from the inverse phase current in coil B is expressed as voltage optimization in the load to reduce the energy to the extend of 20 - 25%.



Other Products

: vallabmahi@gmail.com : www.vmepl.com

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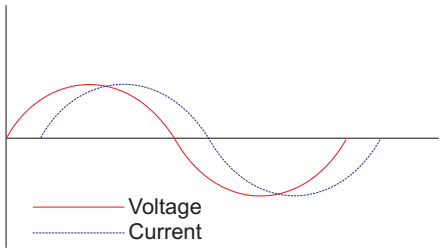
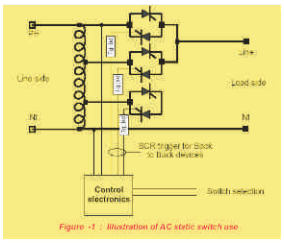
VOLTAGE vs CURRENT

Es25 optimizes the average effective voltage by optimizing the magnitude of the sine wave which results in proportionate decline in current wave form linearly to reduce the actual power consumption in lighting and mixed loads.

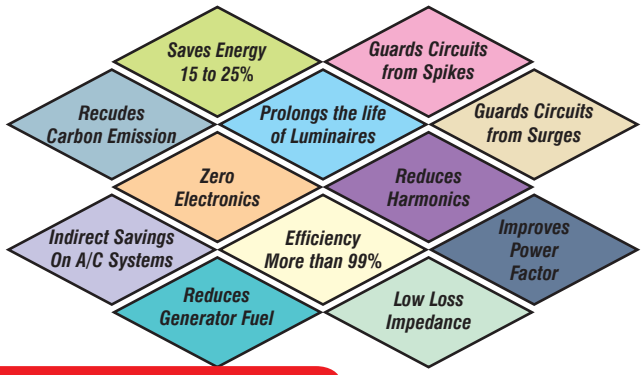


THYRISTOR / TIME BASED SWITCHING

- Electronic Switching
- Automatically the Tap
- Changes with Reference
- To Voltage / Time Base
- Close Loop Changing



Es25 BENEFITS



COMMERCIAL BENEFITS

- Payback Period will be as low as 18 months
- Reduces Maintenance Cost
- 80% Depreciation in the 1st year of Investment

TESTED & CERTIFIED BY

- Southern Regional Electricity Board (SREB)
- Central Power Research Institute (CPRI)
- Karnataka Electricity Board (KEB)
- Chief Electrical Inspector to Government of Karnataka (CEI)
- Electronics Test & Development Centre (ETDC)

RECOMMENDED BY

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SOME OF INDIAN CUSTOMERS

Authorised Channel Partner for:

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