



Lighting Control Energy Saver

LCES-01/03



Suitable for different types of Lamps:

- Fluorescent Lamps with Cu/Al ballasts.
- CFL lamps.
- Sodium / Mercury vapor lamps.
- Metal halide lamps.
- LED lamps.

Intelligent Control with
Energy saving.

In built dynamic
Power Factor correction.

**20% to 40%
Energy
Saving**

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Features:

- Suitable for 3 - phase and 1phase supply applications.
- Models with switching type & servo control type.
- Voltage Control energy saving.
- Phase cut - off control energy saving.
- Schedule Control – Multiple schedule allotment. (8 events/day.)
- Programmable Sunset / Sunrise time control for street lighting.
- Remote access control through
 - Wireless GSM or
 - Wired RS - 232/485. (MODBUS)
- Smooth (step - less) or Stepped control with blink - free switchovers.
- Data Logging within the unit.
- Automatic switching to full intensity for assured turn - on of fluorescent lamps.
- By intelligent load sensing control.
- Complete display of all the electrical parameters like :
 - Voltage
 - Current
 - Power
 - Energy.
 - Saved energy.

Specifications:

- Supply voltage +15% voltage variation.
- Supply Voltage 220/240 V/50 Hz 277 V/60 Hz for 1 Ph. or 3 Ph.
- Energy saving - 10% to 40% depending upon lamps used and input voltage levels.
- Efficacy improvement of lamps: i.e. improvement in the ratio of "Lumens output ÷ watt consumed" by 5% to 20%.
- Enclosure Class - From IP - 32 to IP- 54 (IP - 56 only with sp. needs)
- Measurement Accuracy Class 1 as per RBC 62053-22
- Measurement sensitivity for current - upto 0.8% of rated current.
- Time accuracy - 1min in 1year.
- PF regulation within +/- 0.95 to -0.99.
- Operating temperature: 0°C to 50° C ambient temperature.
- Storage temperature: - 10° C to 75° C ambient temperature.
- Relative Humidity: 0 to 97% RH. Maximum altitude from sea level: 1,500met.
- Maximum temperature rise inside the system = 15° C above ambient.
- MS - Windows compatible software for GSM communication, data downloading and viewing.
- MS - Windows compatible software for adjusting sunset / sunrise timing.



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