



Application Note *for*

Energy Savings in Street and Road Lighting

Savings with the Right Voltage

Be among the hundreds
of Municipalities
already saving money...

**23.3% Savings on
Connector Roads
Coral Springs, FL**

**City of Budapest
Saves 25% on Street
and Area Lighting**

**19-25% Savings on
Outdoor Lighting at
Schiphol Airport,
Amsterdam**

**Power reduction of
34% in Independent
Performance Test
using IESNA criteria**

Lighting Systems

HPS, LPS, MV
MH



The Right Voltage Solution

The LEC minimizes public lighting inefficiencies and turns them into savings while contributing to the environment. By supplying the *right voltage* to the lighting circuit and operating the lights only when needed, the LEC makes outdoor lighting applications more efficient. The compact dimensions and light weight make LEC very simple to install next to the existing street lighting electric distribution cabinet. Once connected, the LEC produces direct electricity savings of 25% - 35%. Indirect saving through switching lights ON and OFF at correct times, and extending lifespan of HPS lamps is estimated at an additional 10% - 15% savings. All together, direct and indirect savings produce an attractive ROI of approximately 2.5 years.

Benefits

ROI of ~ 2.5 years

Compact and easy to install

No change to existing infrastructure

Reduce CO2 emissions

Features

Voltage reduction of up to 60V allows maximum savings

Voltage stabilization to filter out line voltage fluctuations improves lamp performance and extends lamp life

Compensation for voltage increase at night allowing maximum savings during low-traffic hours

Up to 4 adjustable time windows to control voltage and power at different time intervals according to traffic density and pedestrian activities.

Astronomic clock that can be set according to geographical coordinates and tuned to switch street lights ON and OFF according to sunset and sunrise.

Automatic protection to bypass the LEC during overload or over-temperature conditions with no interruption to lighting operation

Product	Range	Voltage Regulation
LEC A Tp (3 phase)	3x20A – 160A on 277V	Voltage reduction: 60V Voltage regulation step: 5V
LEC A STL (1-phase)	1x15A – 1x30A on 240V and 480V	Voltage reduction: 50V Voltage regulation step: 4.7V