



# 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

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## 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 35V 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	3x20A – 250A	Voltage Reduction: 35V with steps of 2.5V Voltage Stabilization, Internal Bypass, Astro-clock, Adjustable time windows, Ignition sequence
LEC A sp	1x10A – 1x25A	Voltage reduction: 35V with steps of 2.5V Voltage stabilization, External bypass, Ignition sequence

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