

Application Note *for*

Energy Savings in Health Care Facilities

Savings
with the
Right Voltage

**Alfred Public
Hospital
Melbourne Victoria
Saves 24-26%**

**Hadassah
University Hospital
Jerusalem
Saves 21%**

**Emek Medical
Center, Israel
Saves 20% - 22%**

Lighting Systems
Fluorescent, PL



The Right Voltage Solution

Health care facilities place a high priority on power quality due to the sensitivity of medical equipment to electromagnetic interferences and harmonic distortions. The majority of fluorescent lighting systems in hospitals are installed with conventional electromagnetic ballasts in order not to create harmonics. This results in 30-35% of electricity going to lighting circuits. The LEC is the ideal solution for controlling lighting and saving energy in health care by providing direct energy saving of 20 – 25%. The LEC can be installed on lighting circuits for public areas, corridors, lobby, emergency rooms and other care facilities without changing the existing infrastructure. Overall system efficiency is improved resulting in fewer repairs and less re-lamping of lighting systems. Reduced consumption also reduces the line current by 20-25%, freeing up overloaded circuits for additional medical devices. Small dimensions and light weight makes LEC easy to install in any existing electrical cabinet.

Benefits

No Harmonic interference to sensitive medical devices

Reduce energy consumption by 20%-25% and freeing overloaded circuits

Increase lifespan of lamps

ROI of 1.5 - 2.5 years

Features

Reduce line current to free capacity for life-saving medical equipment

Full facility coverage: public areas, corridors, lobby, emergency rooms and outdoor lighting

Improve Maintenance Records with less repairs and reduced loss of life to lamps and surgical luminaries

Easy installation in any electric cabinet or closet

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

Product	Range	Features
LEC A	3x20A - 3x250A	Outdoor lighting with HPS: Astro-clock, time windows, automatic protection
LEC B SUPER	3X20A- 3X160A	Indoor lighting with fluorescent and PL lamps. Easy to install, plug and play, automatic protection, 25V reduction