

EnergyAce Light[®]

EnergyAce Light - LEC A

This advanced 3-phase energy controller is designed to control and stabilise the voltage applied to lighting circuits in return for substantial Co2 and energy savings.

BENEFITS

- 15% - 35% - energy saving
- Reduced Co2 emissions
- Voltage Stabilisation
- Controlled energy reduction in 2.5v decrements
- Full protection against overtemperature and overload
- Built-in display and keypad for easy programming
- Seamless integration with energy management systems
- Compact robust and highly efficient
- No harmonic distortions THD/EMI free



FEATURES

Automatic Seamless Bypass – Automatic bypass in case of over-temperature or overload, without disruption to the lighting load

Manual Bypass – integral manual bypass to completely remove for circuit.

Ignition Sequence – Ignition & re-ignition feature as standard for use in installations with multi-zone lighting, the EnergyAce Light automatically switches to ignition mode when an increase of current is detected in one of the zones due to additional lighting ignition.

Operation Modes–

- Manual: manual operation vial the built in keypad
- Remote: activates via an external command (timer or photocell)
- Automatic: activates automatically on demand
- Astro Clock: activates according to time of sunrise/sunset

Real-Time Clock – The real-time clock enables operation in automatic and astro-clock modes, which depend on date and time.

Astronomic Clock – An astronomic clock allows lights to be turned on and off according to the time of sunset and sunrise. This minimizes the operating hours of lighting and helps save additional 5-10% of energy.

Dual Lighting Circuits - This enables activation of lighting circuits form different time schedules. This mode is suitable for applications that combine outdoor and indoor lighting circuits connected to the same supply like fuel stations and outside display lighting etc.

Time Windows – Adjustable time windows with four intervals during a 24 hour period for maximum control

PES
POWER
EFFICIENT
SYSTEMS

Power Efficient Systems Ltd, 15 Greenhey Place, Skelmersdale Lancashire WN8 9SA
Tel: 01695 559785 Fax: 01695 559826
e-mail: post@pesgrouppltd.co.uk www.pesgrouppltd.co.uk
Company registered in England No: 4362110

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PROTECTION

Over-temperature Protection & Control

- Fan activation at 60oC
- Automatic seamless bypass activated at 140oC

Overload Protection

- Dual overload protection:
- Overload & short circuit protection via integral circuit breaker
- Automatic seamless bypass activated on overload for than 4 minutes.

COMMUNICATION & CONTROL

RS232/485: MODBUS/RTU for communication with SCADA etc
Input: Control Start, Stop or Bypass mode - via photocell or timer etc
Output: Contact terminals for aux contactor or dual circuit mode

TECHNICAL SPECIFICATIONS

Rating	HxWxD-mm	Kg	Ht -mm	Hb-mm	Terminals
3 x 20A	610x300x250	32	26	155	10mm ²
3 x 30A	610x400x255	50	26	155	35mm ²
3 x 50A	610x400x255	50	26	155	35mm ²
3 x 80A	645x540x320	68	26	175	35mm ²
3 x 100A	780x590x305	110	26	190	70mm ²
3 x 125A	780x590x305	110	26	190	70mm ²
3 x 160A	1500x800x455	230	N/A	N/A	120mm ²
3 x 200A	1500x800x455	230	N/A	N/A	120mm ²
3 x 250A	1500x800x455	280	N/A	N/A	120mm ²

Input Voltage: 3x230v AC+/- 10%

Output Voltage: Up to 35V reduction
First decrement -15V
Following decrements 2.5V

Frequency: 50Hz/60Hz
Efficiency: 99.5%
THD: 0%
Ambient Temp: -20oC/+50oC
IP rating: IP 20 (with covers)
Humidity: 0% - 90%

