

# Ecolite

## SINGLE PHASE SAVER FOR LIGHTING



Single phase H.I.D. saver



Single pole H.I.D. saver



**Ecolite** is a compact, economical and unique unit, designed to save 25% of power consumption, in discharge lighting systems.

In addition, the EcoLite extends the lighting elements' lifetime, improves line power factor and line conduction losses, without any change of infrastructure.

## ENERGY SAVING

Voltage reduction within the nominal applied to H.I.D bulbs can **save substantial energy**. The voltage supplied in Europe is 230-245 VAC. The nominal voltage of H.I.D bulbs is: 207-253 Vac ( $230 \pm 10\%$ ).

The difference between the supplied and required voltage causes a waste of energy paid by the users.

One of the common and very basic methods to save energy on H.I.D bulbs is by using various inductors to drop the unnecessary energy.

The obvious drawbacks of this method are:

- a. The losses are moved from the bulb to the inductor,
- b. The inductor is a current limiting device, causing voltage output to depend on the drawn current.
- c. Line power factor is negatively affected by an additional inductor.

**Ecolite**, a voltage source regulator, avoids those drawbacks.

## FEATURES

Ecolite saves energy in H I D bulbs.

- Ecolite reduces incoming voltage to the necessary voltage level.
- Ecolite's estimated energy savings are up to 25%

The **Ecolite** is mostly applied at long lines with heavy voltage drop, or where central infrastructure for lighting does not exist.

## ADDED VALUE

- Extends lighting elements' lifetime.
- No changes of infrastructure are required.
- Very compact in weight and size.
- Short payback time.
- No sine wave distortion (THD).
- Improves line power factor ( $\cos f$ ).
- Reduces line conduction losses.


## TECHNICAL SPECIFICATIONS

**Input voltage:** Up to 260 VAC.

**Output voltage:** Input voltage minus 20V to minus 30V.


Input voltage (VAC)	Output voltage (VAC)	dv (VAC)
220	200	20
230	205	25
240	214	26
250	223	27
260	230	30

	(A)	10 A	16 A
Dimensions (mm)	H	112	112
	W	166	166
	D	111	111
	Weight (kg)	4.9	4.9



**Single phase saver**

	(A)	0.75 A	1.2 A	2 A	6 A
Dimensions (mm)	H	100	100	130	160
	W	70	70	80	100
	D	60	60	70	90
Weight (kg)		0.8	0.88	1.4	2



**Single pole saver**

• Specification are subject to change without notice.