

WORLD'S REVOLUTIONARY ENERGY SAVER !

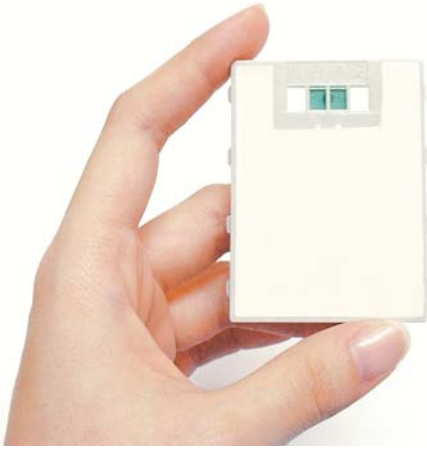
FOR FLUORESCENT LAMPS, GAS DISCHARGE LAMPS & AIR-CONDITIONER

Saves up to 38 %

Stop paying for energy wastage

Higher performance over electronic ballast

Lower operation cost



WHY LIGHTING ENERGY SAVER?

Fluorescent lamps, particularly the 18W/36W fluorescent tubes and High Intensity High Pressure Gas Discharge Lamps (mercury or sodium vapour lamp etc) are common lightings used today. It is worthwhile to note that these lightings generate a considerable amount of inevitable energy wastage ranging from 30% to 50%. Thus a significant part of the electricity bill goes to pay for this wastage. The Energy Saver is the cost effective solution to turn this wastage into savings whereby companies can save hundreds of thousands of dollars each year.

The Energy Saver reduces energy wastage up to 28% and at the same time, it increases the lamp's lifespan. Its long product lifespan, low cost, energy savings, short payback time and low installation cost are an excellent choice over any other conventional saving methods.

All Energy Savers are designed as an add-on retrofit device without the need for re-wiring to the existing light fitting. This helps tremendously to save extensive labour cost for re-installation such as electronic ballast. A simple 1 minute retrofit installation can be achieved with minimum training.

FEATURES & BENEFITS

- ☒ Achieve energy saving up to 38%.
Excellent alternative over electronic ballast.
- ☒ Increase fluorescent tube lifespan up to 60%.
This helps to reduce maintenance costs both over replacement and labour.
- ☒ Improve Power Factor hence reduce KVA maximum demand tariff.
- ☒ Reduce fluorescent tube heat loss up to 27% which in turns enable air conditioner saving.
- ☒ Quick payback time within 2 years, depending on operational hours and light fitting configuration.
- ☒ Product lifespan of 100,000 operations
- ☒ Simple and quick Do-It-Yourself installation

Savings and payback over electricity bills varies as it depends on operational hours, light fitting configuration and models used.

BENEFITS OVER ELECTRONIC BALLAST

	Energy Saver	Electronic Ballast
Energy Saving	20% - 38%	10% - 20%
Heat Reduction	Yes, reduced	No, heat up lamp & ballast
Life Span	Very long	Short
Cost	Low	High
Payback Time	Within 2 years	3 to 5 years
On/Off Switching	More durable	Vulnerable
Tube Life *1	Increase up to 60%	Increase up to 60%
Tube Life *2	No change	Reduced by 25%
Size	About 10 times smaller	Bulky
Retrofit	Fast & easy(approx 1 min)	Too costly on labour
Emergency lighting	Possible	Most models not possible
Device short circuit	Will not damage or trip	Trip and likely damaged
Operating Frequency	50Hz	20KHz to 48KHz
Harmful Harmonics	No	Yes
Improve Power Factor	Yes	Yes
System Current/Tube	0.14/0.15A	0.16/0.17A
Weight	30g	300g

Note *1

By reducing load on the lamp electrodes

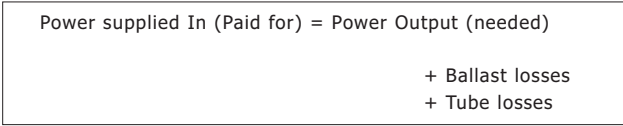
Note *2

Instant start switching reduce lamp life by 25%

HOW DOES THE ENERGY SAVER WORKS?

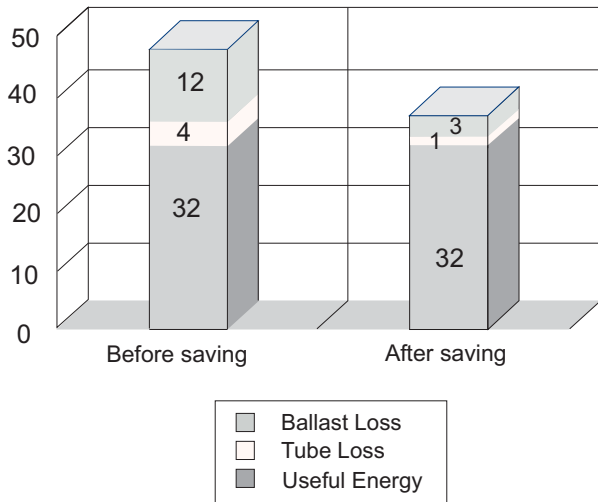
The basic principle of the energy saver is to reduce the energy wastage on the ballast and tube losses at line frequency.

Technically, the electrical power use for fluorescent lighting can be broken down into the following,



Electricity Bill = (Power In KW) x (Hour used) x (Tariff Rate) x (GST)
 GST - Goods Service Tax

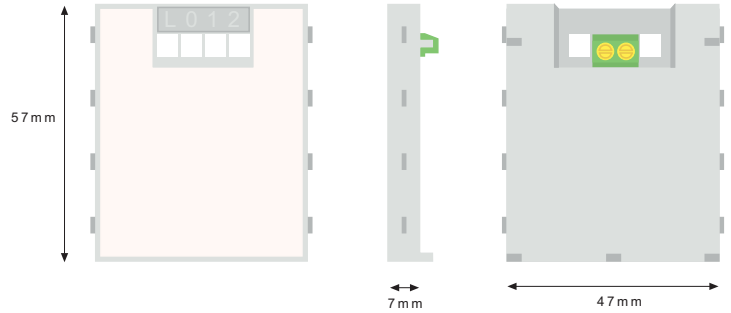
36W Fluorescent Lighting (standard ballast)



SPECIFICATION

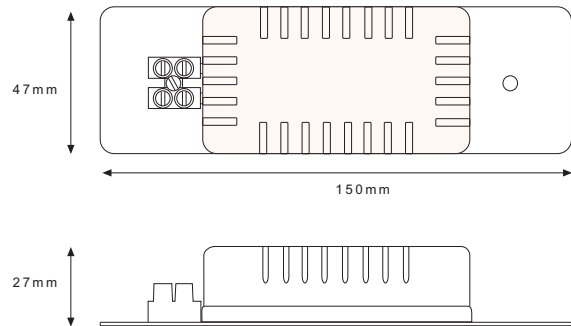
Fluorescent Lighting Energy Saver

- Typical Saving : 25%
- Supply Voltage : 230VAC ± 5% / 110VAC ± 5%
- Line Frequency : 50Hz / 60Hz
- Maximum Rating : 1.2 A
- Weight : 30 g
- Min. Life Span : 100,000 On/Off Switching Operation



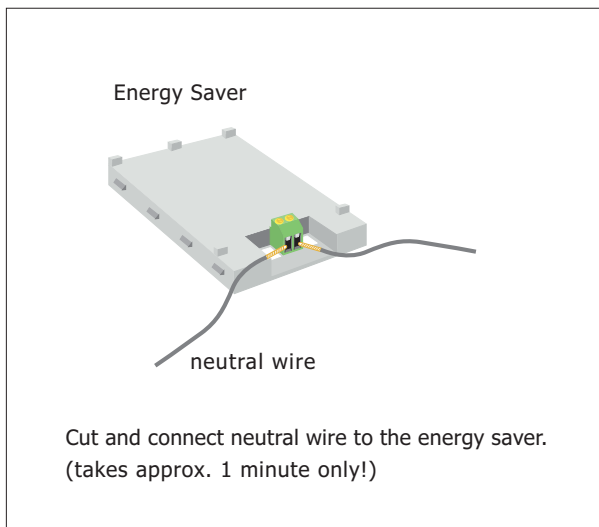
Gas Discharge Energy Saver

- Typical Saving : 18%
- Supply Voltage : 230VAC ± 5% / 110VAC ± 5%
- Line Frequency : 50Hz / 60Hz
- Maximum Rating : 8 A
- Weight : 200 g
- Min. Life Span : 100,000 On/Off Switching Operation



All product dimensions are subject to changes without prior notice.

SIMPLE DIY INSTALLATION



Customers Reference:

- De La Rue Currency & Security Print
- Epson (Singapore)
- Hewlett Packard (Singapore)
- Hitachi (Singapore)
- Molex (Singapore)
- Nanyang Technological University (Singapore)
- Singapore Airlines
- Singapore Technologies

Authorized Distributor



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