General performance

In the Asia Pacific region mains voltage fluctuation can be a daily occurrence affecting the output of fluorescent lamps and impeding ignition. The EB-ECONOMY range of electronic ballasts gives you back control over lighting conditions. The range is designed to suit the spectrum of rated mains voltages in the region – from 220-240V, 50 and/or 60Hz – and to handle mains voltage fluctuations from 216-247V without affecting performance. Additionally, the lamps will continue to operate well even if mains voltage drops to 184V or rises to 264V.

DESIGNED BY PHILIPS DESIGN HONG KONG 2002

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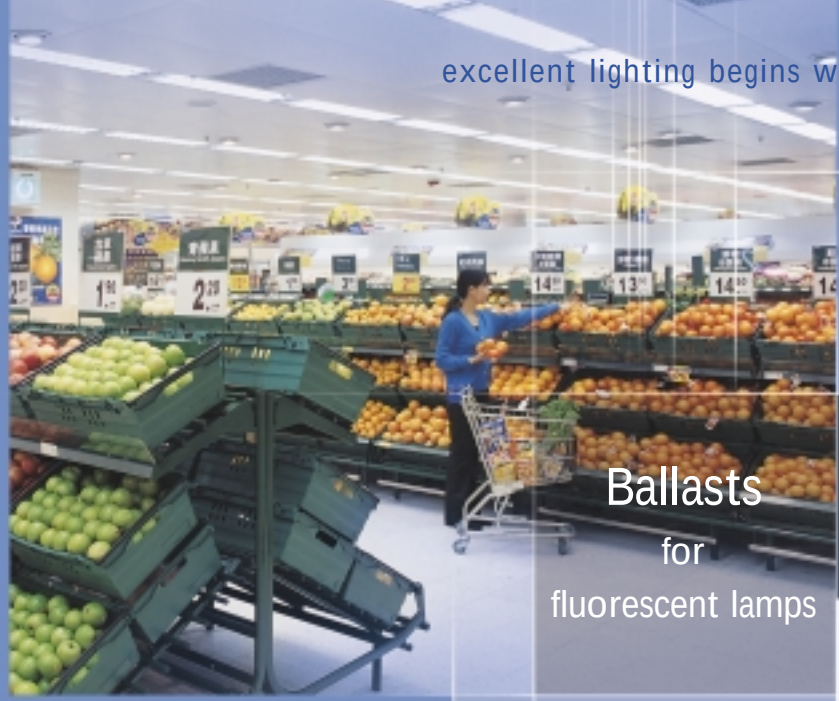

Ballasts for fluorescent lamps

electronics

EB-ECONOMY

PHILIPS

Let's make things better.

The EB-ECONOMY range of electronic ballasts is in a class of its own where cost is a key consideration but comfort and quality are no less important.

Benefits

Using up to 20% less energy than electromagnetic ballasts, Philips EB-ECONOMY electronic ballasts equal bottom line savings, which makes them the smart choice in situations that require a lighting system to balance comfort and confidence with cost-efficiency.

The versatile EB-ECONOMY is flexible enough to be used with 'TL', 'TL'D and PL-L lamps and, designed to the highest specifications, the EB-ECONOMY complies with IEC 928 safety standards. Manufacture takes place in facilities certified ISO 9001-compliant as a further assurance of safety and reliability. ISO 14001 certification of the manufacturing process gives customers the peace of mind that comes from knowing the products they use are made in an environmentally responsible way.

Lamp life is guaranteed by a crest factor of under 1.7 and heating lamp electrodes during ignition. Even strong mains voltage fluctuations cannot impede the comfortable flicker-free operation of a lamp operating through an EB-ECONOMY electric ballast. The robust construction of the EB-ECONOMY, including internal potting, also prevents interference from moisture and dust. Lightweight, compact, cost-saving and energy efficient, the Philips EB-ECONOMY is an easy choice to replace dated electromagnetic systems.

The EB-ECONOMY is even designed to the same mounting size as electromagnetic ballasts, allowing for easy removal of electromagnetic ballasts, starter and capacitors and their replacement with the more advanced EB-ECONOMY electronic ballasts. When comfort, cost of installation and operation, safety and reliability are key considerations, the EB-ECONOMY is the answer.

Product portfolio

Lamp family	Wattage	Quantity of lamps on one ballast
'TL'D	18W, 36W	1 or 2 lamps
PL-L	18W, 36W	1 or 2 lamps
'TL'E	22W, 32W	1 lamp

Energy saving calculation

Step 1	Determine traditional electromagnetic system (T12+ballast+starter)	'TL' 40W, 52W System power
Step 2	Determine new electronic system (T8+EB-E ballast)	'TL'D 36W, 36W System power
Step 3	Determine average burning hours per year (Typical office building)	4,000 hours
Step 4	Determine cost per KWH (Depending on local supply condition)	US$0.10

Annual cost saving = (Step 1 - Step 2) x Step 3 x $\frac{\text{Step 4}}{1000}$

Example:
Annual cost saving = (52-36) x 4000 x $\frac{\text{US\$0.10}^*}{1000}$ = **US$6.40**
Savings per lamp

* data subject to change