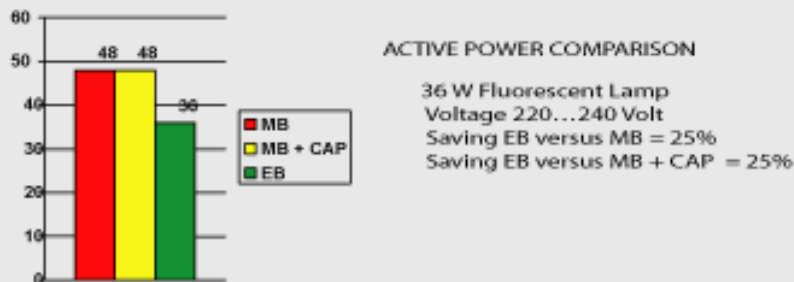


BENEFITS OF ECONOWATD



ECONO-WATD PREMIUM CONSTANT LIGHT OUTPUT

The ECONO-WATD PREMIUM has provided better illumination quality than the normal electronic ballast. By using ECONO-WATD PREMIUM model, light will never be distributed by voltage fluctuation ($\pm 15\%$ of rated voltage). These can be concluded in three conventional advantages. Firstly, people will not lose their concentration of work whenever voltage fluctuation happening. It will help create more ideas and give longer thinking times. Secondly, constant light output means constant power consumption which provided an accurate energy consumption calculation. It can also give you warranty of the saving precisely when implementing the replacing ballast scheme. Thirdly, it gives longer lamp expectancy life due to constant running current. The PREMIUM can regulate lamp current with minimal change of 1%.



Second, failure is upon the three phases voltage installation. During maintenance three phases system care should be taken when disconnection neutral and ground wires. Neutral interruption may result in over-voltage, this damaging the ballasts. When installing ballast in three phases system, especially combination of emergency supply system, it is recommended to check the mains voltage is within the application range to the ballast (176V to 225V) and also make absolutely sure that neutral conductor is correctly connected to all ballasts. Practically, voltage relay and surge suppression unit at the three phases distribution unit are recommended to protect all electronic products per se.

INSTALLATION FAULTS

Apparently, electronic ballast does not need highly skill technique for installing. However, more than half of product's failure is effected by installation. These are persistent in two faults.

First, the failure occurred by the misunderstanding of the electronic ballast instruction in many applications e.g. light dimming, master slave connection and highly frequent switching, thus normal electronic ballasts are usually not recommended, a special type of ballast may be required. Experiences also show that misunderstanding and misread wiring diagram can cause heavy failure to the products. Moreover, most of ballasts are designed in non-isolated ground system, installation without disconnecting from mains supply may accidentally happen short circuit between ballast output wires and ground.

