

Energy saving study and comparison data

Following are the data and comparison test results between Futek (P) model electronic ballast Model FT- P362-T8-M1 with 2 lamps T8 120 cm 36W and magnetic ballast using same lamps under same voltage and working condition .

The test results demonstrate that Futek electronic ballast (P) models is performing much far better than magnetic ballast in terms of Power factor , harmonic distortion , energy saving , and economic aspects

The new (P) series of Futek Ballasts are a break thru in the design and manufacturing of electronic ballast , till recent days was not possible to imagine the possibility to reach > 99 of Power factor and less than < 10 in Total Harmonic Distortion with passive circuits , to reach those figures expensive PFC circuits (Power Factor Control) was the only way , the cost of Electronic ballast that perform with mentioned high performance was not economically visible in countries like Egypt ware electricity cost is subsidized and people give less care to energy conservation .

Thanks to the efforts of Egyptian scientist in the energy conservation and lighting efficiency efforts during the past 3 years that have developed new ballast design with well tuned harmonic filter and best ever protection circuit for end of lamp life or up-normal function .

The new (P) models of Futek ballast are economically visible to replace magnetic ballast for Governmental, commercial and industrial use.

Following are our comparison test data and technical comments.

Electric performance of a circuit that uses 2 magnetic ballast connected with 2 lamps of T9 38W each.

Electric Performance of a circuit that uses 1 Electronic Ballast FUTEK (P) series connected to same 2 lamps of T9 38W used for test of magnetic Ballast.

Description	Magnetic Ballast	Futek Electronic Ballast (P)	Notes
Volt IN	220	220	
Ampere	0.913	.304	
Watt	104.5	66.1	
Power Factor	0.523	0.992	
Harmonic THDi	9.7%	8.9%	

Conclusion:

The test results demonstrate clearly that Futek Ballast (P) series has superior performance than magnetic ballast.

The economic cost of (P) series FUTEK Electronic Ballast (45 Le) for each 2 lamps will favor
When compare to magnetic ballast.

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