

**MAINTENANCE
ENGINEERING'S**

**COMMON
PROBLEMS**

- SHORT LAMP LIFE
- SHORT BALLAST LIFE
- WASTE ENERGY

PREMIRA® **ELECTRONIC** BALLASTS

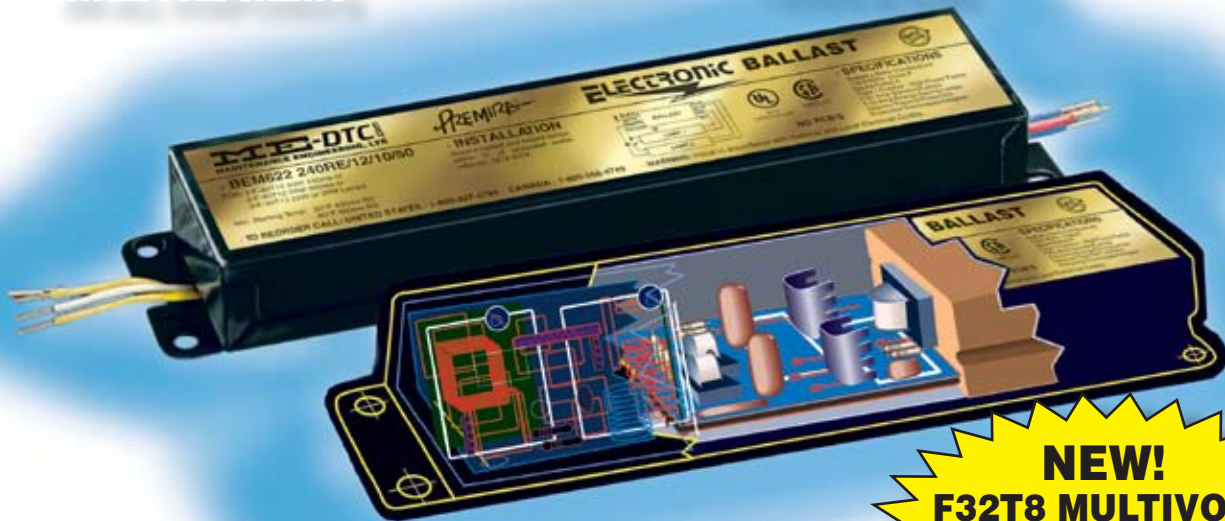
BUILT TOUGHER and SMARTER

TOUGH PREMIUM QUALITY CONSTRUCTION

- 50 YEAR RATED COMPONENTS
- EXTRA LARGE HEATSINKS
- RIVET STYLE SOLDERING
- HIGH TEMPERATURE RATING ON ALL COMPONENTS

SMART ELECTRONICS ELIMINATE EARLY BURNOUTS

- PRECISE LAMP VOLTAGE FOR MAXIMUM LAMP LIFE
- "SMART" STARTING CIRCUITRY EXTENDS LAMP LIFE
- STAYS IN SPEC



**NEW!
F32T8 MULTIVOLT™**

- ELECTRONICALLY ADJUSTS TO 120v OR 277v SYSTEMS

OTHER FEATURES:

- SMALL, LIGHTWEIGHT DESIGN WEIGHS UP TO 62% LESS*
- HIGH FREQUENCY 42,000+ Hz OUTPUT
- LESS THAN 10% T.H.D. **
- NO HUM OR FLICKER

UP TO **44%**
ENERGY SAVINGS

COMPARED TO STANDARD T12 MAGNETIC BALLASTS

- CUTS POWER BILLS
- PAYS FOR ITSELF

SHORT LIFE BALLAST FAILURE AS EARLY AS

4 YEARS

**M.E. PREMIRA®
ELECTRONIC BALLASTS
GUARANTEED MINIMUM**

50 YEARS

* Compared to T-12 magnetic ballast

** <10% Total Harmonic Distortion on select ballasts

To Order Call:

UNITED STATES ... 1-800-437-4794
CANADA 1-800-268-4749
TORONTO 1-416-675-1623

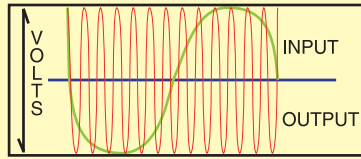
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M.E.-DTC
MAINTENANCE ENGINEERING, LTD.

TECHNICAL INFORMATION



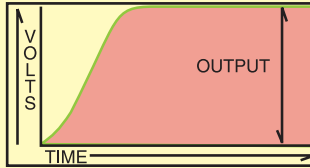
HIGH FREQUENCY OPERATION



42,000 Hz OUTPUT

Maximizes efficiency, with no hum or flicker, won't interfere with infrared remote controls.

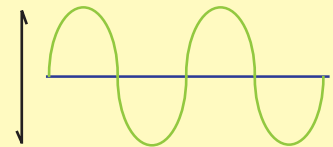
SOFT STARTING (F40T12)



EXTENDS LAMP LIFE

Precise gradual start reduces stress on lamp cathodes, improving life.

LESS THAN 10% THD



Low THD better for computers, electronics, reduces neutral wire heating.

*On select ballasts

BALLAST SPECIFICATIONS

Ballast for:	Standard Input Watts	M.E. Input Watts	% Saved	Yearly Savings	M.E. THD*	M.E. Power Factor	M.E. Ballast Factor
4' BIPIN LAMPS							
	T12						
2 lamp 4' T12 RS	96w	71w	26%	\$16.64	<10%	0.98	0.85
1 lamp 4' T12 RS	57w	38w	33%	\$21.90	<15%	0.98	0.85
	T8						
2 lamp 4' T8	96w	59w	39%	\$32.41	<10%	0.98	0.88
3 lamp 4' T8	153w	85w	44%	\$59.56	<10%	0.98	0.88
4 lamp 4' T8	192w	112w	42%	\$70.08	<10%	0.99	0.88
8' INSTANT START (SINGLE PIN) LAMPS							
	T12						
2 lamp 8' T12 IS	173w	132w	24%	\$35.91	<15%	0.98	0.85
	T8						
2 lamp 8' T8 IS	173w	110w	36%	\$55.18	<10%	0.98	0.88
8' T12 HIGH OUTPUT (800 m.a.) LAMPS							
2 lamp 8' T12 HO	257w	205w	20%	\$45.55	<20%	0.98	0.89

RS = Rapid Start, IS = Instant Start Single Pin, HO = High Output

*THD—Total Harmonic Distortion

Available in 120 volt or 277 volt

\$SAVE\$ calculated at \$.10/kwh operation 24hr/day, 7 days/week.

OPERATING CHARACTERISTICS

- U.L. listed for safety
- Class 'P' thermal protected - shuts down at 194°F to prevent fire danger
- Non PCB construction - safer for people and the environment
- Standard wiring and mounting for easy installation
- Minimum starting temperature:
F40RS...50°F F96HO...-20°F F96T12IS...50°F
F32T8...0°F F96T8IS...32°F Energy Saving Lamps...60°F

EXPLANATION OF TERMS

TOTAL HARMONIC DISTORTION (THD): Total harmonic distortion, or THD, is the measure of how much a building's electrical equipment distorts the waveform of that building's power supply.

A building with excessive THD can result in lost computer data, overheating of electrical equipment, and overheating of the building's neutral wires.

Standard shortlife ballasts can range up to 30% THD, whereas M.E.'s new PREMIRA® electronic ballasts produce less than 10% THD*.

Over a building's life, equipment (low-quality ballasts, computers, electric motors, etc.) is added which adds THD to the building's power supply. At the same time, sensitive equipment (computers, phones, fax machines, modems, electric motors, etc.) is added which requires power with low distortion. Consequently, a building's distortion level continues to climb so it's important to purchase low-THD electrical equipment.

POWER FACTOR: Percent of the current the ballast uses from what the power company supplies. ANSI (American National Standards Institute) classifies high power factor as above 90%. Maintenance Engineering electronic ballasts have a minimum power factor of .96, with most above .97 (considered excellent).

BALLAST FACTOR: A unit of measure of the expected light output of a ballast compared against an IES (Illuminating Engineering Society) standard reference ballast. Ballast factors above 1.0 overdrive lamps to provide more light. Ballast factors between .85 and 1.0 are considered excellent.

*On select ballasts

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