

**SUPERIOR
LAMP'S**

HEAVY DUTY™ ELECTRONIC BALLASTS



Feature

• HEAVY DUTY™ CONSTRUCTION



50-YEAR COMPONENTS

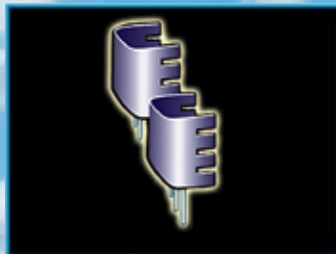
- STAY IN SPEC
- COOL OPERATION



DOUBLE CONTACT CIRCUITRY*
- RESISTS HEAT AND VIBRATION



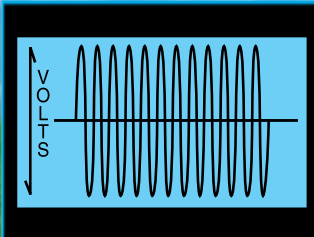
STANDARD BALLAST
- shortlife components



LARGE HEAT SINKS
- PROTECTS ELECTRONICS



STANDARD BALLAST
- connections fail



42,000+ CYCLE DESIGN

- NO HUM
- NO FLICKER
- SAVES ENERGY

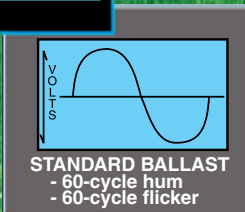


STANDARD BALLAST
- overheats and fails



MAXIMIZES LAMP LIFE

- BALLAST MATCHES LAMP ELECTRICAL CHARACTERISTICS



STANDARD BALLAST
- 60-cycle hum
- 60-cycle flicker



STANDARD BALLAST
- lamps burn out early

*HO's feature extra-rugged connections

50 YEAR GUARANTEE

SUPERIOR LAMP'S

COMMON PROBLEMS

- SHORT LAMP LIFE
- SHORT BALLAST LIFE
- WASTE ENERGY



HEAVY DUTY™ ELECTRONIC BALLASTS

HEAVY DUTY™ CONSTRUCTION

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

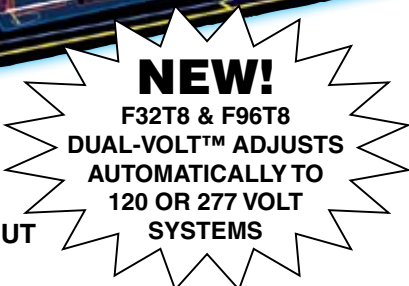
INTELLIGENT ELECTRONICS ELIMINATE EARLY BURNOUTS

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



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

STANDARD BALLAST

OUT OF SPEC IN **2-4 YRS**
TOTAL FAILURE IN **6 YRS**



SUPERIOR'S
HEAVY DUTY™ BALLAST
GUARANTEED

50 YEARS

* Compared to T-12 magnetic ballast

**on select ballasts

TO ORDER CALL: 1-800-437-4772

Your Representative:

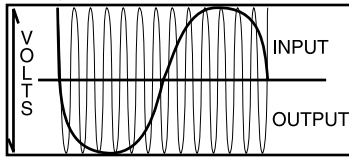


TECHNICAL INFORMATION

HEAVY DUTY™

ELECTRONIC BALLASTS

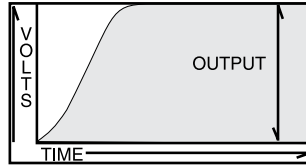
42,000 Hz OUTPUT



HIGH FREQUENCY OPERATION

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

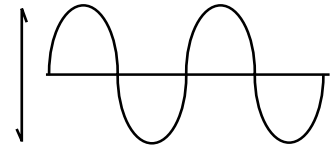
EXTENDS LAMP LIFE



SOFT STARTING (F40 T12)

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

LOW TOTAL HARMONIC DISTORTION



LESS THAN 10% THD*

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

*On select ballasts

BALLAST SPECIFICATIONS

Ballast for:	Standard Input Watts	S.L. Input Watts	% Saved	Yearly Savings	S.L. T.H.D.*	S.L. Power Factor	S.L. Ballast Factor	% Smaller**
4' BIPIN LAMPS								
T12								
2 lamp 4' T12 RS	96w	71w	26%	\$16.64	<10%	0.98	0.85	44%
1 lamp 4' T12 RS	57w	38w	33%	\$21.90	<15%	0.98	0.85	44%
T8								
2 lamp 4' T8	96w	59w	39%	\$32.41	<10%	0.99	0.87	44%
3 lamp 4' T8	153w	85w	44%	\$59.56	<10%	0.99	0.88	44%
4 lamp 4' T8	192w	112w	42%	\$70.08	<10%	0.99	0.88	44%
8' INSTANT START (SINGLE PIN) LAMPS								
T12								
2 lamp 8' T12 IS	173w	132w	24%	\$35.91	<15%	0.98	0.85	7.5%
T8								
2 lamp 8' T8 IS	173w	107w	38%	\$57.82	<10%	0.98	0.88	30%
8' T12 HIGH OUTPUT (800 m.a.) LAMPS								
2 lamp 8' T12 HO	257w	205w	20%	\$45.55	<20%	0.98	0.89	39%

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

*THD—Total Harmonic Distortion

**Compared to standard magnetic ballast

STOP Available in 120 volt, 277 volt or DUAL-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 S.L.'s new HEAVY DUTY™ 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%. Superior Lamp 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 standard IES (Illuminating Engineering Society) 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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