

## “High Light” Instant-Start Ballast for T8 Lamps



### Product Profile

Advance’s “High Light” electronic ballasts feature a whole array of ballast factors and are ideally suited for applications requiring higher light levels. Two T8 lamps operating on these ballasts can provide comparable light output to four T12 lamps operating on regular ballast. They also present an opportunity to reduce the number of lamps or fixtures while maintaining suitable light levels.

The “High Light” ballasts feature instant-start circuitry. The ballasts increase light levels by approximately 38% versus standard, instant-start ballasts.

As part of Advance’s “miniaturization” initiative, the entire family of “High Light” ballast is now available in the low-profile, “Small Can” enclosure. With no changes in wiring configuration or mounting dimensions, ease of replacement or retrofit is assured.

### Applications

- General office lighting
- Conference rooms
- Meeting rooms
- Boardrooms
- Executive offices
- New construction and retrofit installations

### Design Highlights

- High Light Output
  - Delivers almost 40% more light
  - Provides opportunity to reduce the number of lamps or fixtures required
- Instant-Start Lamp Ignition
  - Saves energy over a rapid-start ballast
- Application Versatility
  - Operates F40T8, F32T8, F25T8 & F17T8 lamps, featuring a wide range of light levels to suit various application needs
- >0.98% Power Factor, < 20% THD
  - Exceeds recommended utility guidelines for harmonics in lighting systems
- Industry Standard Low Profile Small Can
  - Promotes flexibility in fixture designs
  - Facilitates shipping, handling and installation
  - Physically interchangeable with standard electro-magnetic and electronic ballasts
- Parallel-Wired Lamps
  - Independent lamp operation
  - Other lamps continue to operate when one fails
- 0°F Cold Starting Capability
  - Suitable for cold temperature applications

# Ballast Specifications

## Section I - Physical Characteristics

- 1.1 The electronic ballast shall be physically interchangeable with standard electromagnetic and standard electronic ballasts.
- 1.2 The electronic ballast shall have a maximum height of 1.18 in. and maximum weight of 1.8 lbs.
- 1.3 The electronic ballast shall be furnished with integral leads, color-coded to ANSI C82.11.

## Section II - Performance Requirements

- 2.1 The electronic ballast shall operate from a nominal line voltage of 120 or 277 volts, +/-10%, 60Hz.
- 2.2 The electronic ballast input current shall have Total Harmonic Distortion (THD) of less than 20% when used with primary lamp.
- 2.3 The electronic ballast shall have a Power Factor greater than 98% when used with primary lamp.
- 2.4 The electronic ballast shall withstand a sustained short to ground or open circuit of any output leads.
- 2.5 The electronic ballast shall be Sound Rated A.
- 2.6 The electronic ballast output frequency shall be above 40kHz to minimize interference with infrared control systems and eliminate visible flicker.
- 2.7 The electronic ballast shall meet ANSI C82.11.
- 2.8 The electronic ballast shall withstand transients specified in ANSI C62.41, Location Category A3.
- 2.9 The electronic ballast shall be Instant Start with independent lamp operation.
- 2.10 The electronic ballast shall have a lamp current crest factor of <1.7.

## Section III - Regulatory Requirements

- 3.1 The electronic ballast shall meet the requirements of the Federal Communications Commission rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.
- 3.2 The electronic ballast shall comply with all applicable state and federal efficiency standards.
- 3.3 The electronic ballast shall be Underwriters Laboratories (UL) Listed (Class P) and CSA Certified.

## Section IV - Other

- 4.1 The electronic ballast shall not contain Polychlorinated Biphenyl (PCB's).
- 4.2 The electronic ballast shall carry a five-year warranty from the date of manufacture. Warranty shall be valid for a maximum case temperature of 70° C.
- 4.3 The manufacturer shall have a ten-year history of producing electronic ballasts for the North American market.
- 4.4 The electronic ballasts shall be produced in a factory certified to ISO 9002 Quality System Standards.

Lamp Data		Input Volts	Min. Starting Temp. (°F/°C)	Catalog Number	Line Current (Amps)	Input Power ANSI (Watts)	Ballast Factor *	Max. THD (%)	Min. Power Factor	
Number	Watts									
<b>F17T8, FBO17T8</b>										
1	17	120	0/-18	REL-1P32-HL-SC	0.21	25	1.22	20	0.95	
		277		VEL-1P32-HL-SC	0.10					
2	17	120	0/-18	REL-2P32-HL-SC	0.37	44	1.22	20	0.96	
		277		VEL-2P32-HL-SC	0.17					
3	17	120	0/-18	REL-3P32-HL-SC	0.52	62	1.20	20	0.98	
		277		VEL-3P32-HL-SC	0.23					
<b>F25T8, FBO25T8</b>										
1	25	120	0/-18	REL-1P32-HL-SC	0.29	34	1.22	20	0.97	
		277		VEL-1P32-HL-SC	0.13					
		120		0/-18	REL-2P32-HL-SC	0.33	38	1.43	20	0.95
		277			VEL-2P32-HL-SC	0.15				
2	25	120	0/-18	REL-2P32-HL-SC	0.52	61	1.22	20	0.98	
		277		VEL-2P32-HL-SC	0.23					
		120		0/-18	REL-3P32-HL-SC	0.57	67	1.33	20	0.98
		277			VEL-3P32-HL-SC	0.25				
3	25	120	0/-18	REL-3P32-HL-SC	0.74	88	1.20	20	0.98	
		277		VEL-3P32-HL-SC	0.32					
<b>F32T8, FBO32T8, F32T8/U6</b>										
1	32	120	0/-18	REL-1P32-HL-SC	0.35	42	1.20	20	0.98	
		277		VEL-1P32-HL-SC	0.16					
		120		0/-18	REL-2P32-HL-SC	0.41	49	1.41	20	0.98
		277			VEL-2P32-HL-SC	0.18				
2	32	120	0/-18	REL-2P32-HL-SC	0.66	79	1.20	20	0.98	
		277		VEL-2P32-HL-SC	0.29					
		120		0/-18	REL-3P32-HL-SC	0.73	87	1.32	20	0.98
		277			VEL-3P32-HL-SC	0.32				
3	32	120	0/-18	REL-3P32-HL-SC	0.96	114	1.18	20	0.98	
		277		VEL-3P32-HL-SC	0.42					
<b>F40T8</b>										
1	40	120	32/0	REL-1P32-HL-SC	0.43	51	1.15	20	0.98	
		277		VEL-1P32-HL-SC	0.19					
		120		32/0	REL-2P32-HL-SC	0.49	59	1.38	20	0.98
		277			VEL-2P32-HL-SC	0.22				
2	40	120	32/0	REL-3P32-HL-SC	0.88	105	1.30	20	0.98	
		277		VEL-3P32-HL-SC	0.38					

\* Consult lamp manufacturers for applications with ballast factor >1.2

