

Optanium™

Instant Start Ballast for High Efficiency T8 Lamps



The Ideal Choice for Optimizing T8 Lighting Systems



Product Overview

Advance introduces a new family of Smart Solutions for T8 systems - Optanium™.

Optanium is a high-efficiency electronic ballast family that combines maximized energy savings with the flexibility you need to create a T8 system matched to your requirements. High-efficiency Instant start Optanium ballasts are available to meet specific needs in two versions - a standard light output design (0.88 Ballast Factor) and a low-watt design (0.78 Ballast Factor). All have cold-start capability down to 0°F and a low-profile design optimized for today's fixture designs.

Applications

- General office lighting
- Retail stores
- Warehouses
- New construction
- Retrofit installations

Design Highlights

- Hi-efficiency
 - Ballast consumes less input watts than a standard efficiency electronic ballast
- Instant-start lamp ignition
 - Consumes less energy than Rapid-start ballasts
- Low-profile, lightweight housing
 - Physically interchangeable with standard electromagnetic and electronic ballasts
 - Facilitates shipping, handling and installation
 - Provides flexibility in new generation fixture designs
- Independent lamp operation (ILO)
 - Other lamps continue to operate when one or more lamps fail
- Operates between 40 kHz and 54 kHz
 - Eliminates interference with Infrared Control Systems or commonly used Electronic Article Surveillance (EAS) systems
- 0°F starting capability
 - Suitable for cold temperature situations
- Centium® technology (<10 THD, >0.98 PF)
 - Meets most demanding power quality requirements
 - Perfect for applications where harmonics are a concern
- 20ft. remote mounting/tandem wiring capability
 - Provides maximum application flexibility
- Auto-restrike capability
 - Eliminates the need to reset power mains after failed lamps are replaced
- Operates F32T8, F32T8/ES, F25T8, F17T8 and F40T8 lamps
 - Provided maximum versatility

Ballast Specifications

Selection Guide

Section I - Physical Characteristics

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

Section II - Performance Requirements

- The electronic ballast shall operate from a nominal line voltage of 120-277V, 50/60Hz.
- Ballast shall be classified "hi-efficiency" and shall provide a minimum 3 watt energy savings over comparable standard electronic ballasts.
- The electronic ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when used with primary lamp.
- The electronic ballast shall have a Power Factor greater than 98% when used with primary lamp.
- The electronic ballast shall withstand a sustained short to ground or open circuit of any output leads.
- The electronic ballast shall be Sound Rated A.
- The electronic ballast output frequency to the lamps shall be above 40 kHz to minimize interference with infrared control systems and eliminate visible flicker.
- The electronic ballast shall meet ANSI C82.11.
- The electronic ballast shall withstand transients specified in ANSI C62.41, Location Category A3.
- The electronic ballast shall be Instant-start with independent lamp operation.
- The electronic ballast shall have a lamp current crest factor of <1.7.
- Lamps may be remote or tandem mounted up to a maximum of 20 ft. overall lead length between ballasts and lamps.

Section III - Regulatory Requirements

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

Section IV - Other

- The electronic ballast shall not contain Polychlorinated Biphenyl (PCB's).
- 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.
- The manufacturer shall have a ten-year history of producing electronic ballasts for the North American market.
- The electronic ballasts shall be produced in a factory certified to ISO 9002 Quality System Standards.

Lamp Data		Min. Starting Temp. (°F/°C)	Input Volts	Catalog Number	Line Current (Amps)	Input Power ANSI (Watts)	Ballast Factor	Max. THD %	Min. Power Factor
Number	Watts								
F32T8/ES (30W)									
1	30	60/15	120	ROP-2P32-SC	0.28	33	1.01	10	0.97
			277	VOP-2P32-SC	0.12	33		15	
2	30	60/15	120	ROP-2P32-SC	0.44	52	0.88	10	0.99
			277	VOP-2P32-SC	0.19	52			
3	30	60/15	120	ROP-3P32-SC	0.65	77	0.88	10	0.99
			277	VOP-3P32-SC	0.28	76			
4	30	60/15	120	ROP-4P32-SC	0.86	102	0.88	10	0.99
			277	VOP-4P32-SC	0.37	101			
F32T8, FBO32T8, F32T8/U6									
1	32	0/-18	120	ROP-2P32-SC	0.30	35	1.01	10	0.98
			277	VOP-2P32-SC	0.13	35		15	
2	32	0/-18	120	ROP-2P32-SC	0.47	55	0.88	10	0.99
			277	VOP-2P32-SC	0.20	55			
3	32	0/-18	120	ROP-3P32-SC	0.70	83	0.88	10	0.99
			277	VOP-3P32-SC	0.30	82			
4	32	0/-18	120	ROP-4P32-SC	0.91	108	0.88	10	0.99
			277	VOP-4P32-SC	0.39	107			
F32T8/ES (30W)									
1	30	60/15	120	ROP-2P32-LW-SC	0.24	28	0.87	10	0.98
			277	VOP-2P32-LW-SC	0.10	28		15	
2	30	60/15	120	ROP-2P32-LW-SC	0.38	45	0.78	10	0.99
			277	VOP-2P32-LW-SC	0.16	45			
3	30	60/15	120	ROP-3P32-LW-SC	0.56	67	0.78	10	0.99
			277	VOP-3P32-LW-SC	0.24	66			
4	30	60/15	120	ROP-4P32-LW-SC	0.75	89	0.78	10	0.99
			277	VOP-4P32-LW-SC	0.32	88			
F32T8, FBO32T8, F32T8/U6									
1	32	0/-18	120	ROP-2P32-LW-SC	0.25	30	0.87	10	0.98
			277	VOP-2P32-LW-SC	0.11	30		15	
2	32	0/-18	120	ROP-2P32-LW-SC	0.41	48	0.78	10	0.99
			277	VOP-2P32-LW-SC	0.17	48			
3	32	0/-18	120	ROP-3P32-LW-SC	0.61	73	0.78	10	0.99
			277	VOP-3P32-LW-SC	0.27	73			
4	32	0/-18	120	ROP-4P32-LW-SC	0.81	96	0.78	10	0.99
			277	VOP-4P32-LW-SC	0.35	95			

Wiring Diagrams/Dimensions

