



# 90°C Rated Ballasts for T5/HO Lamps

for F54T5/HO



## Product Profile

Introducing the ADVANCE® T5/HO Centium® ballast featuring IntelliVolt™ technology and a 90°C case temperature rating.

IntelliVolt™, 120 through 277V operation at 50/60 Hz, guarantees shipment of correct voltage ballast and fixture for all applications. This feature, incorporated in a ballast that can operate (1) or (2) T5/HO lamps, minimizes SKU's required in inventory, resulting in significant cost savings. A 90°C case temperature rating makes these ballasts ideal for high temperature ambients such as cove lighting and industrial applications.

Featuring an enclosure that is only 1" high, these low profile, lightweight ballasts provide fixture manufacturers increased flexibility in new generation fixture design. Color-coded, poke-in connectors ensure wiring accuracy and minimize ballast installation time.

The T5/HO ballasts ensure optimum lamp life in frequent switching applications. Utilizing Programmed-Rapid Start lamp ignition circuitry, the ballasts are ideally suited for frequent lamp on/off cycles associated with occupancy sensors or motion detectors.

## Applications

- General office lighting
- Boardrooms
- Meeting rooms
- Industrial applications
- Conference rooms
- New construction
- Executive offices

## Design Highlights

- Centium® Technology (*> 98% power factor, < 10% THD*)
  - Meets the most demanding power quality requirements
  - Perfect for applications where harmonics are a concern
- IntelliVolt™ Technology (*120 through 277V - 50/60Hz*)
  - Ensures shipment of correct voltage ballast or fixture for each application
  - Reduces SKU's required in inventory
- 90°C case temperature rating
  - Suitable for high temperature ambients/industrial applications
- Operates between 40kHz and 54kHz
  - Prevents interference with Infrared Control Systems as well as commonly used Electronic Article Surveillance (EAS) Systems
- 20ft remote mounting/tandem wiring capability
  - Provides maximum application flexibility
- UL Type CC rated
  - Provides anti-arcing protection on all output leads
- Programmed Rapid-Start Lamp Ignition
  - Delivers optimum lamp life even in frequent on/off switching applications
- Multi-lamp capability with consistent ballast factor
  - Operates (1) or (2) lamps at full-light output
  - Further reduces SKU's required in inventory
- Auto-restart
  - Eliminates the need to reset power mains after failed lamps are replaced
- 0°F Cold Starting Capability
  - Suitable for cold temperature applications
- End-of-life lamp protection (E-O-L)
  - Safely removes power from the lamp at end of life
  - Prevents lamp overheating
- Color-coded, Poke-in connectors
  - Ensures wiring accuracy
  - Minimizes fixture assembly and ballast installation time
- Low Profile (1" high), Lightweight Enclosure
  - Provides flexibility in fixture designs
  - Facilitates shipping, handling and installation

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								
<b>F54T5H0</b>									
1	54	0/-18	120	ICN-2S54-90C	0.52	62	1.02	10	0.96
			230		0.28				
			277		0.23				
2	54	0/-18	120	ICN-2S54-90C	1.00	117	1.00	10	0.98
			230		0.52				
			277		0.43				
<b>FT55W/2G11 (55W Long Twin Tube)</b>									
1	55	0/-18	120	ICN-2S54-90C	0.49	58	0.92	15	0.96
			230		0.26				
			277		0.22				
2	55	0/-18	120	ICN-2S54-90C	0.94	112	0.90	10	0.98
			230		0.48				
			277		0.41				
<b>FT50W/2G11 (50W Long Twin Tube)</b>									
1	50	0/-18	120	ICN-2S54-90C	0.51	61	1.12	15	0.96
			230		0.27				
			277		0.23				
2	50	0/-18	120	ICN-2S54-90C	0.99	118	1.10	10	0.98
			230		0.51				
			277		0.43				
<b>FT36W/2G11 (36/39W Long Twin Tube)</b>									
1	36/39	0/-18	120	ICN-2S54-90C	0.39	46	1.22	20	0.96
			230		0.21				
			277		0.18				
2	36/39	0/-18	120	ICN-2S54-90C	0.75	89	1.20	10	0.98
			230		0.38				
			277		0.32				
<b>FC12T5/HO (55W Circline)</b>									
1	55	0/-18	120	ICN-2S54-90C	0.46	55	0.87	15	0.96
			230		0.25				
			277		0.21				
2	55	0/-18	120	ICN-2S54-90C	0.89	106	0.85	10	0.98
			230		0.45				
			277		0.38				

## Ballast Specifications

### Section I - Physical Characteristics

- The electronic ballast shall have a maximum height of 1".
- The electronic ballast shall be provided with poke-in connectors, color-coded to ANSI C82.11.

### Section II - Performance Requirements

- The electronic ballast shall operate from a nominal line voltage of 108 through 305 volts, 50/60Hz.
- The electronic ballast shall have a maximum case temperature rating of 90°C
- 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 40kHz 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 Programmed Rapid-Start lamp operation.
- The electronic ballast shall have an end-of-life lamp shutdown circuit.
- The electronic ballast shall have a lamp current crest factor of <1.7.
- Lamps may be remote or tandem wired up to a maximum of 20ft overall lead length between ballast and lamps
- The electronic ballast shall have a minimum starting temperature of 0°F.

### 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 Underwriters Laboratories (UL) Listed (Class P and Type CC) 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. Ballast shall carry a three-year warranty when operated at a maximum case temperature of 90°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.

