

LEDVANCE Electronics

UVLightFight™ UV-C Ballasts

Application

UVLightFight UV-C ballasts are programmed rapid start electronic ballasts designed to maximize lamp life, with 120-277V_{AC} universal input voltage. They have been tested in combination with LEDVANCE UVLightFight UV-C T8 bi-pin lamps to ensure proper UV-C radiant output for effective surface disinfection or purification of air and water, providing a complete system for professional applications such as hospitals, universities, laboratories, water treatment facilities or specially designed HVAC systems.

Benefits and Features

- Programmed rapid start
- Ideal for control with occupancy sensor for safe UV-C operation
- Extended lamp lifetime compared to instant start ballasts
- Operates on long or short switching cycles
- Inherent thermal protection
- Lamp End of Life protection: ballast will shut down upon sensing a faulty or failing lamp, protecting the ballast as well as the lampholders from damage

Electrical

- Universal voltage 120-277V
- Input frequency 50/60Hz
- Power factor > 0.90
- THD ≤10%
- CF ≤1.7
- Circuit type: Series Lamp Operation

Rated Life

- 50,000 hours (T_c ≤Max Case Temperature)

Warranty

- Ballast is covered by a 5-year limited warranty

Ambient Operating Range

- -4°F to +131°F (-20°C to +55°C)

Maximum Case Temperature

- 75°C (127°F) for G30T8 and G55T8 ballasts
- 90°C (194°F) for G15T8 and G36T8 ballasts



Certifications and Listings

- cULus¹ (UL Listed Class P, Type 1 Outdoor)
- UL Type CC, Type HL², no PCBs
- RoHS
- Meet FCC Part 18 Non-consumer limits
- ANSI/IEEE C62.41 / C82.11
- Sound rated Class A

¹UL 935, CAS C22.2

²LUV2XG15T8UNVPS not tested for HL listing

Installation Warning

- UVLightFight ballasts operate Risk Group 3 (RG-3) Ultra-Violet (UV) products per ANSI/IES RP27.3-17. Severe skin or eye injury can result from UV emitted from the lamps. When installing and operating ballasts with UV-C lamps, refer to lamp installation instructions and follow all safety instructions, including use of adequate protection and safety gear.

Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

LUV	X-XX	GXX	T8	UNV	PS
Product Type	No of lamp operation	UV Lamp power	T8 Lamp	Universal Input Voltage	Programmed Start ballast
LEDVANCE UV Ballast	1X = 1 lamp 2X = 2 lamp 1-2X = 1&2 lamp 3-4X = 3&4 lamp	G15 = 15W UV-C Lamp G30 = 30W UV-C Lamp G36 = 36W UV-C Lamp G55 = 55W UV-C Lamp		120-277V	

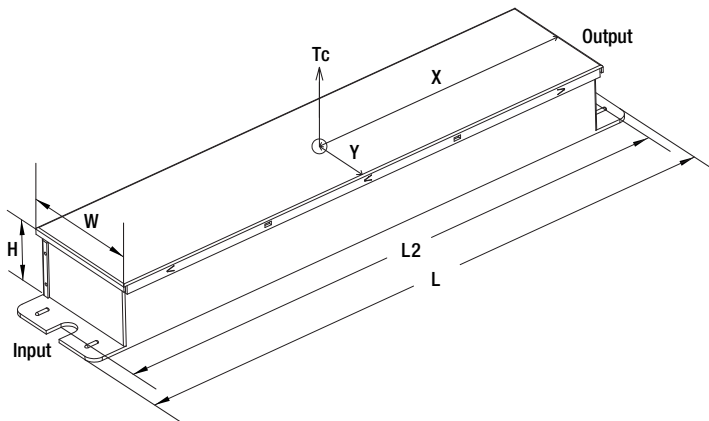
Ordering Information

Item Number	Ordering Abbreviation	Input Voltage (V _{ac})	Input Current Rated (A)*	Power Factor @ Full Load	THD @ Full Load	System Power Rated (W)*	Output Frequency (kHz)	Max Case T _c	OCV (V)
75718	LUV2XG15T8UNVPS	120/277V	0.25/0.12	>0.9	≤10%	32	45	90°C (194°F)	300
75758	LUV1XG30T8UNVPS	120/277V	0.29/0.13	>0.9	≤10%	40	45	75°C (127°F)	300
75719	LUV1-2XG36T8UNVPS	120/277V	0.70/0.30	>0.9	≤10%	91	45	90°C (194°F)	300
75720	LUV3-4XG36T8UNVPS	120/277V	1.37/0.61	>0.9	≤10%	179	45	90°C (194°F)	600
75759	LUV1XG55T8UNVPS	120/277V	0.46/0.21	>0.9	≤10%	60	45	75°C (127°F)	300

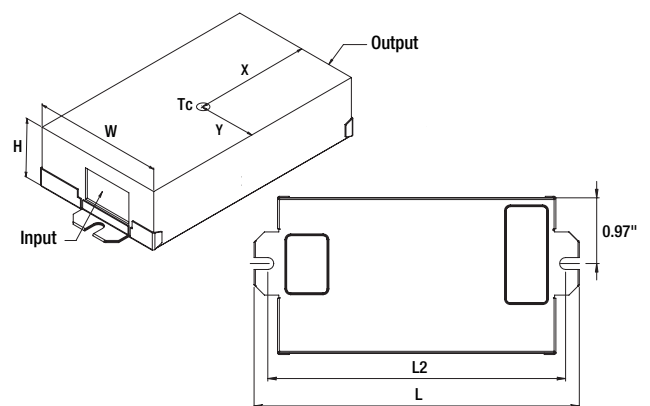
*Parameters associated with ±10% tolerance on its rated value

Physical Information

Linear Style Can



Compact F-Style Can



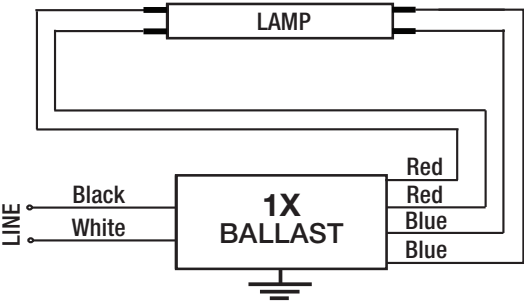
Product Description	Can Style	Length x Width x Height (L x W x H) (in)	Mounting	Mounting Length (L2) (in)	T _c Point Location ¹ (X, Y) (in)	Connection Style
LUV2XG15T8UNVPS	Compact F-Style (White)	5.05 x 2.42 x 0.9	Horizontal	4.66	2.95, 0.65	Terminal blocks
LUV1XG30T8UNVPS	Linear (Black)	9.75 x 1.5 x 1.2	Horizontal	9.2	6.42, 0.71	Lead wires
LUV1-2XG36T8UNVPS	Linear (Black)	9.5 x 1.3 x 1.0	Horizontal	8.9	6.94, 0.63	Lead wires
LUV3-4XG36T8UNVPS	Linear (Black)	16.75 x 1.8 x 1.2	Horizontal	16.3	4.13, 1.1	Lead wires
LUV1XG55T8UNVPS	Linear (Black)	9.75 x 1.5 x 1.2	Horizontal	9.2	6.42, 0.71	Lead wires

¹Top label side of ballast. Refer to dimension drawings for location.

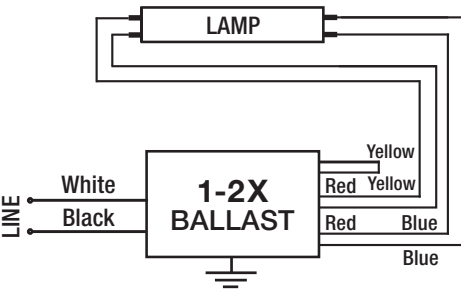
Wiring Diagrams

1-Lamp Operation

LUV1XG55T8UNVPS
LUV1XG30T8UNVPS

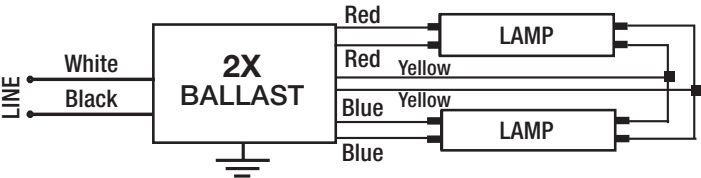


LUV1-2XG36T8UNVPS

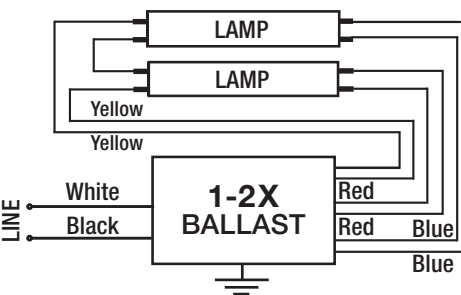


2-Lamp Operation

LUV2XG15T8UNVPS

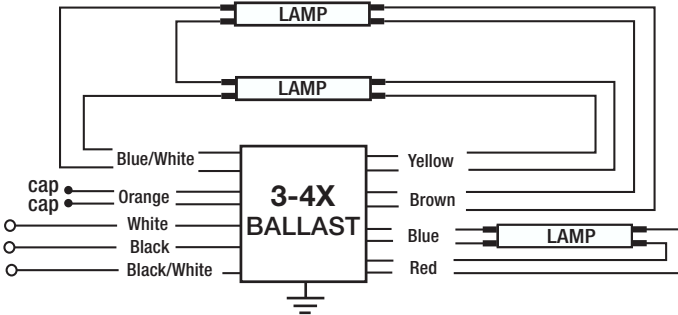


LUV1-2XG36T8UNVPS



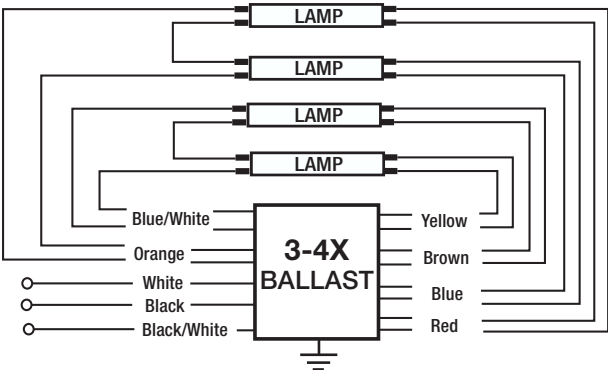
3-Lamp Operation

LUV3-4XG36T8UNVPS



4-Lamp Operation

LUV3-4XG36T8UNVPS



System Data

Ballast Description	Lamp Description	Number of Lamps	System Wattage (W)	Radiant UVC Output (W)	UVC Irradiance (W/m2)	UVC Output Distance (m)
LUV2XG15T8UNVPS	G15T8UVC	2	31.5	7.9	1.13	1
LUV1XG30T8UNVPS	G30T8UVC	1	40.5	13.7	0.39	2
LUV1-2XG36T8UNVPS	G36T8UVC	2	85	24.2	0.37	3
LUV3-4XG36T8UNVPS	G36T8UVC	4	160	42.7	0.72	3
LUV1XG55T8UNVPS	G55T8UVC	1	63	18.3	0.48	2

Application Information

Application Notes

1. Please read all installation instructions before attempting installation.
2. All installation, inspection, and maintenance of lighting fixtures should be done with the power to the fixture turned off. Ballasts should be installed and operated in compliance with the National Electrical Code (NEC), Underwriters Laboratories Inc. (UL) requirements, and all applicable codes and regulations.
3. UVLIGHTFight™ ballasts operate Risk Group 3 (RG-3) Ultra-Violet (UV) products per ANSI/IES RP27.3-17. Severe skin or eye injury can result from UV emitted from the lamps. When installing and operating ballasts with UV-C lamps, refer to lamp installation instructions and follow all safety instructions, including use of adequate protection and safety gear.
4. UVLIGHTFight ballasts have been tested with UVLIGHTFight lamps for compatibility of operation. For compatibility of operation with other lamps, contact LEDVANCE customer service at 1-800-255-5042 or via email at ic@ledvance.com.
5. UVLIGHTFight ballasts have been tested with UVLIGHTFight lamps for UV-C radiant output. For all other lamps, system test for adequate UV-C radiant output is incumbent upon the lamp or fixture manufacturer and is not guaranteed by LEDVANCE unless otherwise specified by LEDVANCE.
6. Series lamp operation: strictly follow number of lamps allowed and wiring diagrams on ballast label. 1 lamp operation is not allowed on LUV2XG15T8UNVPS when operating G15T8UVC lamps. When n and n-1 lamps are allowed, follow wiring diagram to wire n-1 lamps (e.g. 2 lamps to 1 lamp for LUV1-2XG36T8UNVPS and 4 lamps to 3 lamps for LUV3-4XG36T8UNVPS).
7. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
8. Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.
9. Remote mounting (maximum wire length from ballast case to lampholder): 18 ft. max lead length, 18AWG.
10. Operating temperature range between -4°F and 131°F (-20°C and 55°C).
11. If Lamp End of Life protection is triggered and ballast shuts off due to failing or faulty lamps: turn off power to fixture then replace faulty or failed lamps with new lamps. After maintenance is completed and it is safe to do so, power fixture back on.
12. For detailed warranty information, please see www.sylvania.com.

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