Pure*VOLT*™

Electronic Ballasts for Germicidal (UV) Lamps

ADVANCE

Introducing Pure*VOLT*™ - The Power Behind UV Disinfection





Company Overview

North America's leading manufacturer of electronic and, magnetic fluorescent, and HID ballasts as well as LED drivers, Advance represents a tradition of unparalleled quality, reliability, and innovation that has earned the company a market leadership position for over 50 years. With an extensive customer base of over 600 OEMs and 6,000 Electrical Distributors, Advance is the industry's most trusted and preferred brand of ballasts.

Product Overview

The microprocessor controlled Advance Pure*VOLT* electronic ballasts are specifically designed to operate a variety of germicidal lamps. Pure*VOLT* ballasts operate the following low pressure mercury germicidal UV lamps:

High Output
Twin Tube: (1 or 2) HO 35W or 60W; (1) HO 95W
Linear: (1 or 2) 36T5HO (75W); (1) 64T5HO (145W)

Standard Output:
Twin Tube: (1 or 2) TUV 18 PL-L or 36 PL-L

The Advance Pure*VOLT* ballasts for UV lamps offer exclusive features such as IntelliVolt® technology (allowing the ballast to operate at any input voltage from 120 to 277 volts, 50/60 Hz), dual entry, color-coded connectors and lamp EOL protection.

A powerful pair, the combination of germicidal lamps with an Advance Pure*VOLT* ballast provides the appropriate level of UV-C energy to stop the spread of microorganisms, airborne contaminants, and pathogens, reducing the threat of illness and helping to ensure a safer environment for building occupants.

Design Highlights

- Microprocessor controlled - one ballast operates multiple lamps.
- IntelliVolt technology - operates from 120V through 277V.
- Auto-restart which eliminates the need to reset the power mains after lamp replacement.
- Programmed starting for extended lamp life in frequent switching applications.
- Lamp EOL protection to safely remove power from the lamp as it nears end of life.
- 5-year warranty

Applications

UV lamp disinfection for air, water and surface applications:

- Hospitals
- Food Processing
- Residential
- Schools
- Office Buildings
- Recreational Facilities
- HVAC Systems

Ballast Specifications

Section I - Physical Characteristics

1.1 The electronic ballast shall be furnished with poke-in wire trap connectors, color coded to ANSI standard C82.11.

Section II - Performance Requirements

2.1 The electronic ballast shall be IntelliVolt™ and operate from a line voltage range of 108 – 305 volts, 50/60 Hz.

2.2 The electronic ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at the nominal line voltage (120V, 277V) with primary lamp(s).

2.3 The electronic ballast shall have a Power Factor greater than 96%.

2.4 The electronic ballast shall have a Programmed-Start type system.

2.5 The electronic ballast shall have a lamp end-of-life detection and shutdown circuit.

2.6 The electronic ballast shall be sound rated A.

2.7 The electronic ballast output frequency to the lamps shall be above 42kHz to minimize interference with infrared control systems, and eliminate visible flicker.

2.8 The electronic ballast shall meet ANSI C82.11, where applicable.

2.9 The electronic ballast shall withstand transients specified in ANSI C62.41, Location Category A3.

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 where applicable.

3.4 The electronic ballast shall be Underwriters Laboratories (UL) rated for use in air handling spaces.

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 for operation at a case temperature of 75°C or less.

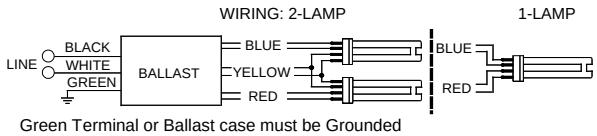
4.3 The manufacturer shall have a fifteen-year history of producing electronic ballasts for the North American market.

4.4 The electronic ballast shall be produced in a factory certified to ISO 9002 Quality System Standards.

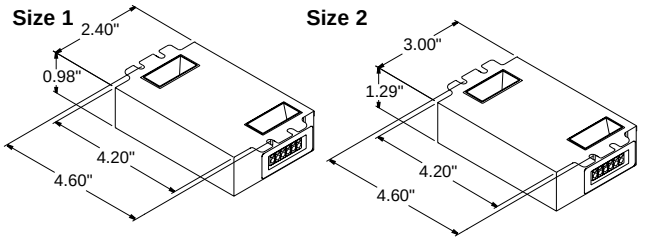
Lamp Data		Input Volts	Catalog Number	Certifications		Lamp Current (mA) @ 120V	Max. THD %	Dim./ Wiring Diagram
Number	Watts			UL	CSA			
TUV PLL 35W HO								
1	35	120 - 277	IUV-2S60-M4-XX*	✓	✓	850	10%	Size 4
2	35	120 - 277	IUV-2S60-M4-XX*	✓	✓	850	10%	Size 4
TUV PLL 60W HO								
1	60	120 - 277	IUV-2S60-M4-XX*	✓	✓	850	10%	Size 4
2	60	120 - 277	IUV-2S60-M4-XX*	✓	✓	850	10%	Size 4
TUV PLL 95W HO								
1	95	120 - 277	IUV-2S60-M4-XX*	✓	✓	800	10%	Size 4
TUV 36 T5/HO								
1	75	120 - 277	IUV-2S60-M4-XX*	✓	✓	800	10%	Size 4
2	75	120 - 277	IUV-2S60-M4-XX*	✓	✓	800	10%	Size 4
TUV 64 T5/HO								
1	145	120 - 277	IUV-2S60-M4-XX*	✓	✓	800	10%	Size 4
TUV 18 PL-L								
1	18	120 - 277	IUV-2S18-H1-LD	✓	✓	290	10%	Size 1
2	18	120 - 277	IUV-2S18-H1-LD	✓	✓	280	10%	Size 1
TUV 36 PL-L								
1	36	120 - 277	IUV-2S36-M2-LD	✓	✓	330	10%	Size 2
2	36	120 - 277	IUV-2S36-M2-LD	✓	✓	285	10%	Size 2

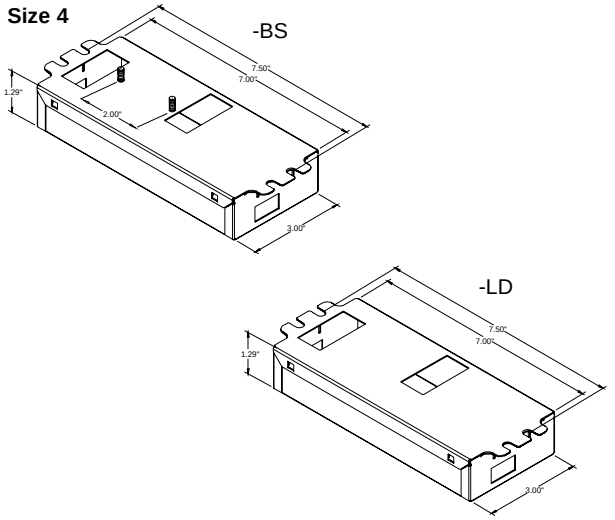
* XX, -BS or -LD

Wiring Diagrams / Dimensions



Green Terminal or Ballast case must be Grounded





Specifications subject to change without notice.
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Advance Transformer Co. • O'Hare International Center
10275 West Higgins Road • Rosemont, Illinois 60018
Telephone: (800) 322-2086 • FAX: (888) 423-1882
Customer Support/Technical Service: (800) 372-3331
www.advancetransformer.com
A DIVISION OF PHILIPS ELECTRONICS NORTH AMERICA CORPORATION