



Germicidal Ultra Violet (UV)

OVERVIEW:

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 by Advance PureVOLT™ electronic ballasts are specifically designed to operate a variety of germicidal lamps. The ballast is ideal for UV lamp disinfection for air, water and surface applications, where HVAC systems are operated.

The Advance PureVOLT 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 end of life (EOL) protection.

A powerful pair, the combination of germicidal lamps with an Advance PureVOLT ballast helps 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

PureVOLT 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

APPLICATIONS:

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

Section I - Physical Characteristics

- 1.1 Ballast shall be available in a plastic/metal can or all metal can construction to meet all plenum requirements.
- 1.2 Ballast shall be provided with poke-in wire trap connectors color coded per ANSI C82.11.

Section II - Performance Requirements

- 2.1 Ballast shall be Programmed Start
- 2.2 Ballast shall contain auto restart circuitry in order to restart lamps without resetting power.
- 2.3 Ballast shall operate from 50/60 Hz input source of 120V through 277V with sustained variations of +/- 10% (voltage and frequency) with no damage to the IntelliVolt ballast.
- 2.4 Ballast shall be high frequency electronic type and operate lamps at a frequency above 42 kHz to avoid interference with infrared devices and eliminate visible flicker.
- 2.5 Ballast shall have a Power Factor greater than 0.96 for primary lamp.
- 2.6 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less in accordance with lamp manufacturer recommendations.
- 2.7 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp.
- 2.8 Ballast shall have a Class A sound rating.
- 2.9 Ballast shall have a minimum starting temperature of -18C (0F) for primary lamp.
- 2.10 Ballast shall provide Lamp EOL Protection Circuit.
- 2.11 Ballast shall tolerate sustained open circuit and short circuit output conditions without damage.

Section III - Regulatory Requirements

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be Underwriters Laboratories (UL) listed, Class P, and Type 1 Outdoor; and Canadian Standards Association (CSA) certified where applicable.
- 3.3 Ballast shall be Underwriters Laboratories (UL) rated for use in air-handling spaces
- 3.4 Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- 3.5 Ballast shall comply with ANSI C82.11 where applicable.
- 3.6 Ballast shall comply with the requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, Non-Consumer (Class A) for EMI/RFI (conducted and radiated).

Section IV - Other

- 4.1 Ballast shall be manufactured in a factory certified to ISO 9002 Quality System Standards.
- 4.2 Ballast shall carry a five-year warranty from date of manufacture against defects in material or workmanship, including replacement, for operation at a maximum case temperature of 75C and three-years for a maximum case temperature of 85C (90C three-year warranty for IUUV-2S60-M4-XX models).
- 4.3 Manufacturer shall have a fifteen year history of producing electronic ballasts for the North American market.
- 4.4 Ballast shall be Advance part # _____ or approved equal.

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

