

ADVANCE

by @signify

Ballasts

PureVolt

IUV-2S75-M4-LD

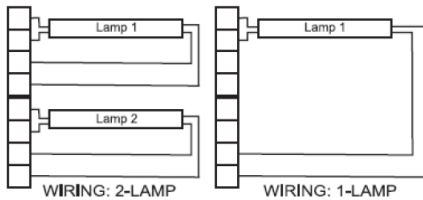


Electrical Specifications at 120V

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Lamp Current (mA)	MAX THD %	Power Factor	Lamp Current Crest Factor (Max)	Total Lamp Power (W)/ Top Measured Lamp Power(W)
TUV PL-L 35W	2	35	0/-18	0.6	74	920	15	0.98	1.7	67
TUV PL-L 60W	2	60	0/-18	1.1	130	910	10	0.99	1.7	120/150
TUV PL-L 60W	1	60	0/-18	0.6	70	970	15	0.98	1.7	63/77
TUV 24T5 HO	2	61	0/-18	1.1	140	910	10	0.99	1.7	130
TUV 24T5 HO	1	61	0/-18	0.6	71	970	15	0.98	1.7	66
TUV 36T5 HO	2	75	0/-18	1.4	160	850	10	0.99	1.7	150
TUV 36T5 HO	1	75	0/-18	0.7	88	960	15	0.99	1.7	80
TUV PL-L 95W	1	95	0/-18	0.8	91	960	15	0.99	1.7	84/98
TUV 22T5 HO	2	48	0/-18	0.9	102	950	10	0.99	1.7	94
TUV 22T5 HO	1	48	0/-18	0.5	57	980	15	0.98	1.7	52
TUV 48T5 HO	1	107	0/-18	0.9	105	950	10	0.99	1.7	97
TUV 64T5 HO	1	145	0/-18	1.2	148	880	10	0.99	1.7	138

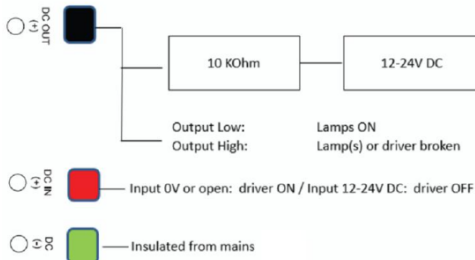
Wiring Diagram

Lamp connections: 8-pin connector on PCB to connect with min 18AWG

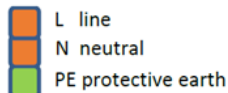


Monitoring Connections

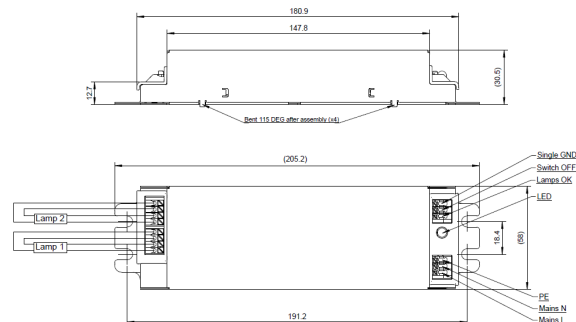
Monitoring: 3 pin connector to connect with min 24AWG



Power Input: 3 pin connector to connect with min 18AWG



Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
8.08 "	2.28 "	1.2 "	7.53 "
8 5/64"	2 9/32"	1 13/64"	7 17/32"
205 mm	58 mm	30.5 mm	191.2 mm



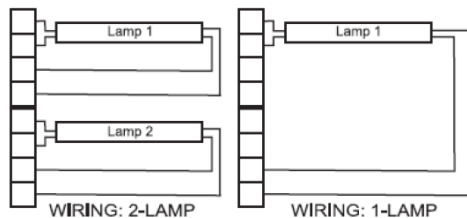
Revised 3/14/2024

Electrical Specifications at 277V

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Lamp Current (mA)	MAX THD %	Power Factor	Lamp Current Crest Factor (Max)	Total Lamp Power (W)/ Top Measured Lamp Power(W)
TUV PL-L 35W	2	35	0/-18	0.3	74	970	20	0.91	1.7	67
TUV PL-L 60W	2	60	0/-18	0.5	129	910	10	0.96	1.7	121/150
TUV PL-L 60W	1	60	0/-18	0.3	71	970	20	0.90	1.7	64/77
TUV 24T5 HO	2	61	0/-18	0.5	137	910	10	0.96	1.7	130
TUV 24T5 HO	1	61	0/-18	0.3	71	970	20	0.90	1.7	66
TUV 36T5 HO	2	75	0/-18	0.6	158	860	10	0.97	1.7	150
TUV 36T5 HO	1	75	0/-18	0.3	88	960	15	0.93	1.7	80
TUV PL-L 95W	1	95	0/-18	0.4	90	960	15	0.93	1.7	83/98
TUV 22T5 HO	2	48	0/-18	0.4	100	950	15	0.94	1.7	94
TUV 22T5 HO	1	48	0/-18	0.2	57	980	20	0.86	1.7	50
TUV 48T5 HO	1	107	0/-18	0.4	104	950	15	0.94	1.7	97
TUV 64T5 HO	1	145	0/-18	0.5	145	890	10	0.96	1.7	138

Wiring Diagram

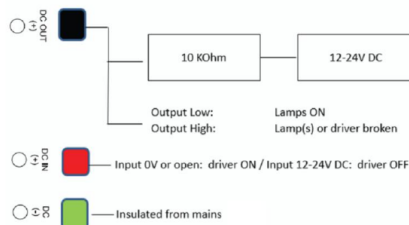
Lamp connections: 8-pin connector on PCB to connect with min 18AWG



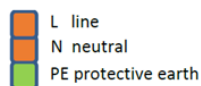
Monitoring Connections

Monitoring Connections

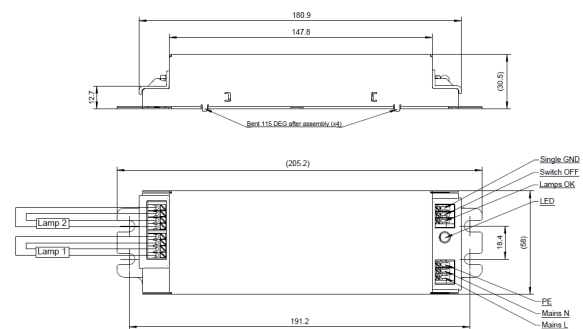
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IUUV-2S75-M4-LD	
Brand Name	PUREVOLT
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	120-277
Input Frequency	50/60 HZ
Status	Preliminary

Electrical Specifications

Notes:

PureVOLT Ballast Specifications

Section I - Physical Characteristics

- 1.1 Ballast shall be physically interchangeable with standard electromagnetic or standard electronic ballasts, where applicable.
- 1.2 Ballast shall be provided with integral leads color-coded per ANSI C82.11.

Section II - Performance

- 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).
- 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. (2x75W)
- 2.6 Ballast shall provide for a Lamp Current Crest Factor of 1.7 or less.
- 2.7 Ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at nominal line voltage with primary lamp (2x75W)
- 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.
- 2.12 Ballast may cause interference with radio equipment and should not be installed near maritime safety communications equipment or other critical navigation equipment operating between 0.45-30 MHz
- 2.13 Earth terminal and ballast case must be grounded
- 2.14 Min. 20,000 on/off switches of the listed lamps
- 2.15 Tc_life 70C maximum and Tc_75C maximum, refer to Tc point location on product label
- 2.16 Operation in ambient temperature between 0C and 40C maximum
- 2.17 Ballast shall have over-temperature protection to turn off the ballast, resetting power is required
- 2.18 Built in protection includes: 1) LED signal is on when lamps are working properly; 2) Monitoring: galvanically insulated output for driver/lamp status; 3) Control: galvanically insulated input for driver switch-off with 12-24V DC signal when mains voltage is applied
- 2.19 Ballast shall have standby power of 0.4W at 230V input voltage

Section III - Regulatory

- 3.1 Ballast shall not contain any Polychlorinated Biphenyl (PCB).
- 3.2 Ballast shall be cURus recognized, RCM, UKCA, UA, CB, CE and Type 1 Outdoor
- 3.3 Ballast shall comply with ANSI C62.41 Category A for Transient protection.
- 3.4 Ballast shall comply with ANSI C82.11 where applicable.
- 3.5 Ballast shall comply with applicable requirements of the Federal Communications Commission (FCC) rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.
- 3.6 Ballast shall comply with NEMA 410 for in-rush current limits.
- 3.7 Ballast shall meet RoHS Compliance Standards



Revised 3/14/2024

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Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	120-277
Input Frequency	50/60 HZ
Status	Preliminary

Section IV - Other

4.1 Ballast shall be manufactured in a factory certified to ISO 9001 Quality System Standards.

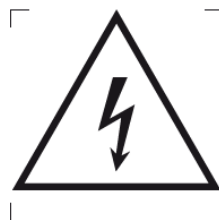
4.2 Ballast shall carry a Five (5) year warranty from date of manufacture against defects in material or workmanship, including replacement, for operation at a maximum case temperature of 75C. (Go to our web site for up-to-date warranty information: www.signify.com)

4.3 Manufacturer shall have a twenty-year history of producing electronic ballasts

The FCC marks suitable for electronic fluorescent ballast:

- (a) The interference potential of the device or system
- (b) Maintenance of the system
- (c) Simple measures that can be taken by the user to correct interference.
- (d) This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45–30 MHz.

WARNING: FELV terminals marked "Risk of electric shock" are not safe to touch.



Danger: electricity

WARNING: Circuits connected to any FELV control terminal shall be insulated for the LV supply voltage of the controlgear and any terminals connected to the FELV circuit shall be protected against accidental contact.



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