SHS1-UNV-C
SHS1-UNV-C-YYYY

RoHS COMPLIANT

c UL us LISTED E186503

Electronic Ballast For Use With UV & Tanning Applications

- Input Voltage/Frequency: 120-277VAC,50/60Hz
- Load Rating: 17W-55W per lamp, 55W Max. Load
- Standard Output Current: 425mA (+/- 10% tolerance)

SHS1-UNV-C-YYYY

- Factory Set Output Current Range Option
  - MOQ applies for output current options other than standard 425mA output.
  - Custom output current part number: SHS1-UNV-C-YYYY; Where "YYYY" denotes the desired set output current. For example for 370mA output, order SHS1-UNV-C-0370.
  - See Made-To-Order section for further details and requirements.

General Specifications

Input Voltage / Frequency	120-277VAC,50/60Hz
Max. Current	0.55A
Load Power	55W max
Power Factor	>0.9 Pin>35W@277V
THD	<20% Pin>40W@277V
Ballast Efficiency	Typically 88%@277V Max Load
Ballast Type	Programmed Pre-Heat Start
Max. Output Voltage / Output Voltage To Ground	279V~
Load Rating	17W-55W per lamp, 55W Max. Load
Number of Lamps	1 or 2
Standard Output Current	425mA (+/- 10% tolerance)
*Factory Set Output Current Range (Available Made-to-Order)	170mA - 425mA (+/- 10% tolerance of set current)
	*Requires additional lamp and ballast verification testing and approval.
Lamp Type	Four pin T5/T5-CR/CFL/PL/T8
Lamp Wiring Method	Series Connection (when one lamp fails both lamps will turn off)
Lamp Operating Frequency	>=42KHZ
Lamp Current Crest Factor	<1.8
Number of Lamps Starts	>15,000
Lamp Preheat Time	1.5 Seconds
Remote Operation	30ft (9.144m)
Max.Ambient Temperature	55°C (131°F)
Min.Operating Temperature	-30°C (-22°F)
Max.Case Temperature	90°C (194°F)
Case Dimensions	L 5.06" x W 2.36" x H 0.988" (128.5mm x 60.0mm x 25.1mm)
Connectors or Wires	Push in Connectors (Use 14-20AWG solid copper wire stripped to 3/8")
Weight	0.23Kg(0.507lb)
Approvals / Standards	UL935 (USA), CSA C22.2 NO.74-16/cUL
	CE (Europe)、CB Scheme
	Class P
	USA (ANSI/IEEE C62.41)
	Type R.S, Type CC
	Type 1 Outdoor
IP Rating	IP20
RFI / EMI	FCC Part 18B (Consumer) Europe_Cispr15
Protections	Input Surge Protection Line-Neutral 2.5KV, Line & Neutral-Ground 2.5KV
	Current Protection
	End of Life Protection
Sound Rating	A
Service Life	50,000 hours lifetime @ 75°C (167°F)
Warranty	5 years @Tc 75°C (167°F) from the date of manufacture

* Factory set output current options will require additional lamp/ballast verification testing and approval to ensure optimal performance. Fulham must approve lamp/ballast combination before hand.

⚠ WARNING

This product may utilize Germicidal Ultraviolet (UV-C) Lamps. Germicidal ultraviolet rays are harmful to the eyes and skin. Avoid exposure to direct or reflected germicidal ultraviolet rays. Follow all the other safety instructions according to installation sheet.

SUNHORSE FULHAM

SHS1-UNV-C
SHS1-UNV-C-YYYY

RoHS COMPLIANT

c UL us LISTED E186503

Lamp List Electrical Data - UV Lamps

Electrical Data @120VAC

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
GPH1148T5L	1	51	0.43	0.995	0.99	1.71
GPH436T5L	1	24	0.20	0.987	0.95	0.88
	2	45	0.37	0.995	1.00	2.35
GPH357T5L/4	1	19	0.16	0.982	1.01	1.24
	2	36	0.30	0.992	1.02	2.51
GPH287T5L/4	2	29	0.25	0.989	1.01	1.34
GPH793T5L	1	41	0.33	0.992	1.00	2.17
GPH843T5L	1	43	0.36	0.993	1.01	1.39
GPH430T5L/4P	1	23	0.21	0.986	1.05	0.71
	2	43	0.36	0.994	1.01	1.24
GPH540T5L/4P	1	28	0.23	0.989	1. 02	0. 64
	2	53	0.44	0.996	0.98	2.02
PL-L 36W TUV	1	39	0.33	0.992	1.07	1.77
G48T5L	1	51	0.43	0.995	1.01	4.34
UVC T8 36W G13X1	1	44	0.37	0.994	1.05	2.16

Electrical Data @277VAC

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
GPH1148T5L	1	52	0.20	0.955	1.02	1.74
GPH436T5L	1	25	0.10	0.874	1.02	0.96
	2	45	0.17	0.944	1.00	2.23
GPH357T5L/4	1	20	0.09	0.844	1.00	2.39
	2	36	0.14	0.924	1.01	2.39
GPH287T5L/4	2	29	0.12	0.902	0.98	1.30
GPH793T5L	1	39	0.15	0.933	1.01	2.07
GPH843T5L	1	43	0.17	0.940	1.07	0.70
GPH430T5L/4P	1	24	0.10	0.871	1.02	1.18
	2	43	0.17	0.940	0.98	1.16
GPH540T5L/4P	1	29	0.12	0.897	1. 05	0. 66
	2	52	0.20	0.957	1.07	4.06
PL-L 36W TUV	1	38	0.15	0.932	1.02	1.86
G48T5L	1	50	0.19	0.952	1.07	4.23
UVC T8 36W G13X1	1	42	0.17	0.942	1.01	2.26

Note: Additional UL lamp testing will be required for lamps not currently UL Listed/Approved on the ballasts spec sheet or online lamp list

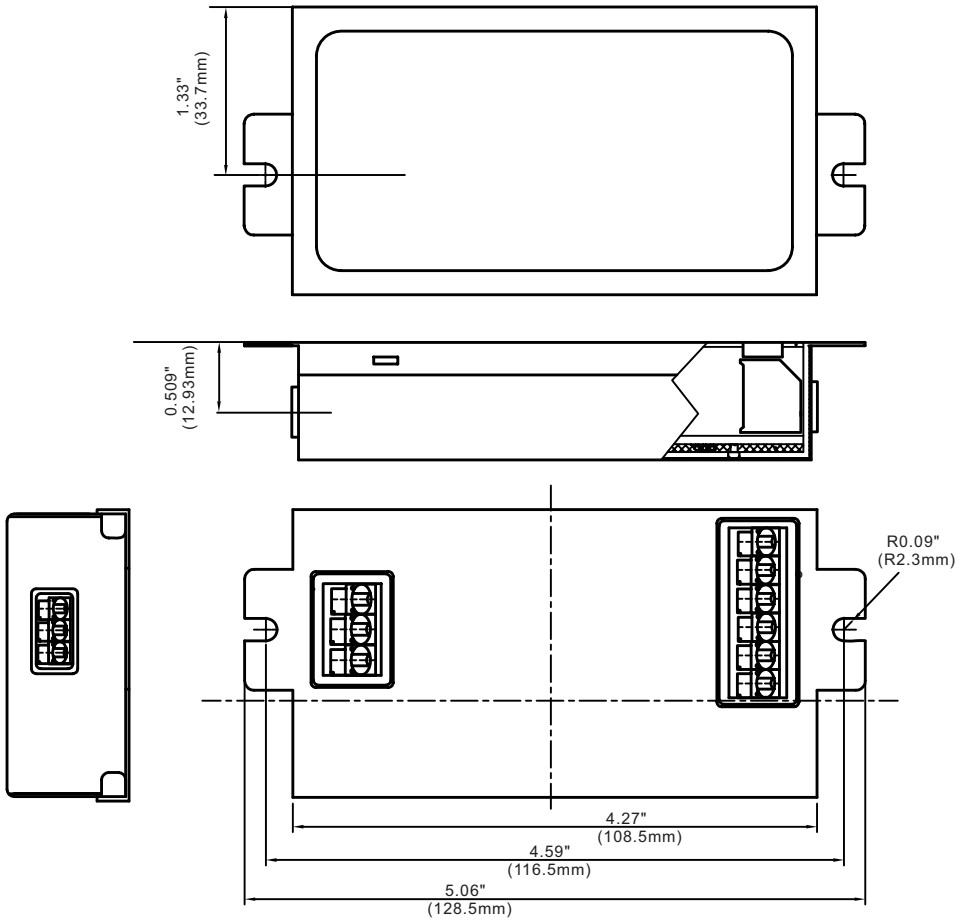
Online Lamp List and Wiring Diagram:
https://www.fulham.com/contact-us/wiring-diagrams/

Scan QR code to be directed to lamp chart and wiring-diagram.

RoHS COMPLIANT

c UL us LISTED E186503

Mechanical Data



Overall Dimensions	
Length	5.06" [128.5mm]
Width	2.36" [60.0mm]
Height	0.988" [25.1mm]
Mounting	4.59" [116.5mm]

Where : L = Length, W = Width, H = Height

±0.01" Tolerance

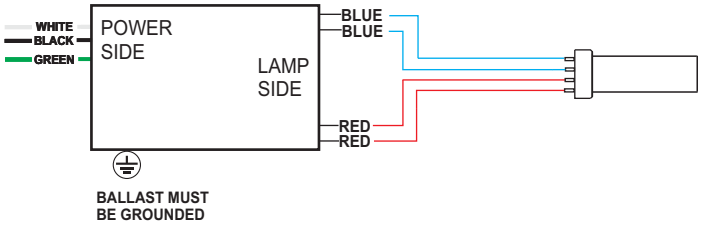
Note:
1.) This ballast must be grounded.
2.) Use 18AWG solid copper wire stripped to 3/8" with ballast push in connectors.

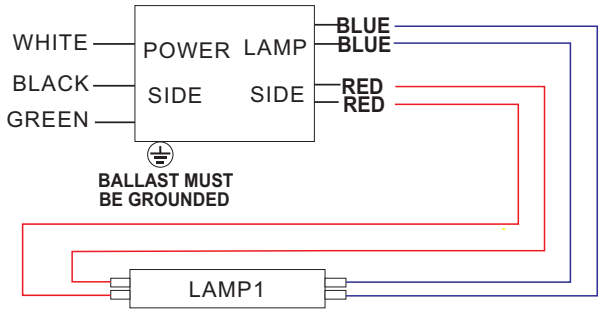
SHS1-UNV-C
SHS1-UNV-C-YYYY

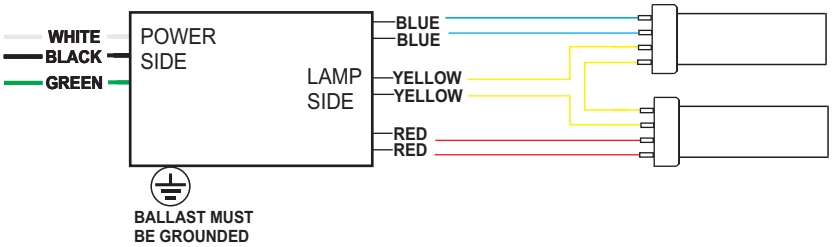
RoHS COMPLIANT

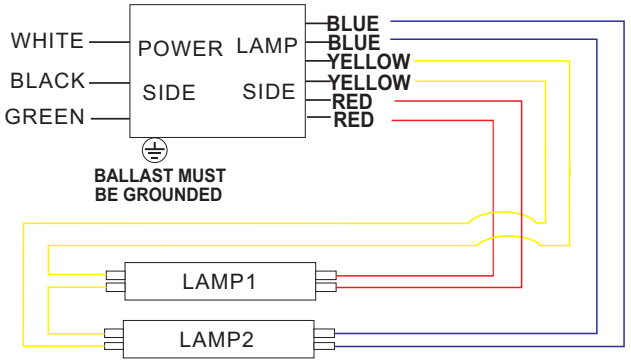
LISTED E186503

UV Light Wiring Diagram









Note: When one lamp fails both lamps will turn off.

Note:
1.) This ballast must be grounded.
2.) Use 18AWG solid copper wire stripped to 3/8" with ballast push in connectors.

SHS1-UNV-C
SHS1-UNV-C-YYYY

RoHS COMPLIANT

c UL us LISTED E186503

Part Number Matrix

SH	S	1	UNV	C	YYYY
Product Line	**Ballast Type**	**Ballast Order Number**	**Input Voltage**	**Case Type**	* Output Current
SH = SunHorse	S = Standard		UNV = 120V~277V	C = Cube or Compact	Blank = 425mA (Standard Stock Model) YYYY = 170mA~425mA (MTO)

* Standard stock Model: SHS1-UNV-C (425mA output current)

* Made to Order (MTO) model: SHS1-UNV-C-YYYY - output current differs from the standard 425mA model. Please see Made-to-Order information section for further details.

Made-to-Order (MTO) Information For SHS1-UNV-C-YYYY

Ballasts available as made-to-order with factory set current, depending on the output current desired. Minimum order quantity (MOQ) will apply. When ordering the appropriate output rating please denote the fixed output current based on the ratings range of the model. Replace the YYYY in the part number with the desired current.

Available Options and Additional Notes:

- Factory Set Output Current range: 170mA - 425mA (+/- 10% tolerance of set current)
- Contact Fulham for further details on lead times and minimum order quantities (MOQ).
- Requires additional lamp/ballast verification testing and approval to ensure optimal performance. Fulham must approve lamp/ballast combination before hand.
- Additional UL verification testing will be needed to UL List lamps not already listed with UL.

MTO Ballast / Lamp Data

Electrical Data @120VAC

Ballast Used: SHS1-UNV-C-0170 - Factory Set Output of 170mA.

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
TUV PL-S 9W/4P	1	13	0.15	0.967	0.98	2.02
	2	22	0.18	0.984	1.01	3.16

Ballast Used: SHS1-UNV-C-0370 - Factory Set Output of 370mA

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
UVC T8 30W G13X1	1	37	0.31	0.992	1.01	2.61

Ballast Used: SHS1-UNV-C-0310 - Factory Set Output of 310mA.

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
UVC T8 15W G13	1	18	0.16	0.977	0.99	1.20
	2	32	0.27	0.991	0.98	2.49

Electrical Data @277VAC

Ballast Used: SHS1-UNV-C-0170 - Factory Set Output of 170mA.

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
TUV PL-S 9W/4P	1	14	0.07	0.756	1.01	2.21
	2	23	0.10	0.867	1.00	3.14

Ballast Used: SHS1-UNV-C-0370 - Factory Set Output of 370mA

Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
UVC T8 30W G13X1	1	37	0.14	0.924	1.05	2.19

Ballast Used: SHS1-UNV-C-0310 - Factory Set Output of 310mA.

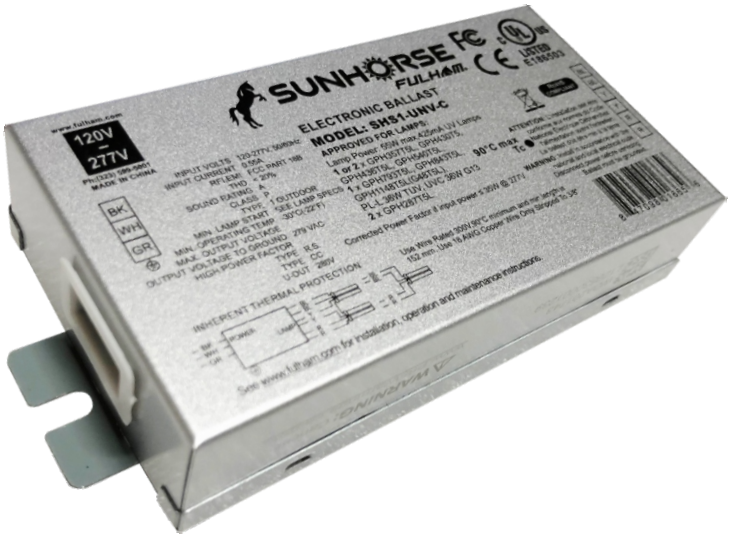
Lamp Wattage / Type	Lamps Operated	Input Wattage	Line Current	Power Factor	Ballast Factor	Efficacy Factor
UVC T8 15W G13	1	18	0.16	0.921	1.01	1.16
	2	33	0.13	0.914	1.02	2.43

SHS1-UNV-C
SHS1-UNV-C-YYYY

RoHS COMPLIANT

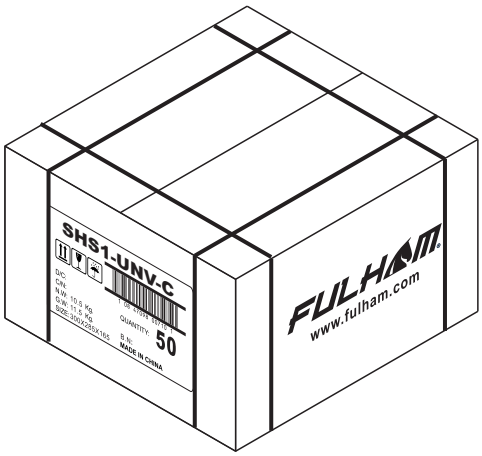
LISTED
E186503

Product Image



Packaging

Master Carton



OUTER DIMENSION		
L	W	H
11. 81" (300mm)	11.22"(285mm)	6.5″ (165mm)

Net Weight	Gross Weight	QUANTITY
23.15bs. (10.5kg.)	25.35lbs. (11.5kg)	50pcs.