

GERMICIDAL LINEAR FLUORESCENT LAMPS



Germicidal Linear Fluorescent Lamps produce substantial amounts of Ultraviolet energy around 253.7 nm (UVC), which is very effective in germicidal applications including the sterilization of air, water or other liquids, and the surfaces of various materials.

The G6T5/OF, G8T5OF, G15T8/OF, G25T8/OF and G30T8/OF lamps are physically and electrically interchangeable with general fluorescent types of similar design but use a special glass, which transmits ultraviolet light.

For all Germicidal Linear Fluorescent lamps proper shielding is required.

- Linear, efficient sources of 253.7 nm Ultraviolet Light
- 6,000 to 9,000 hour effective life¹
- Do not generate Ozone (O₃)

¹ A Germicidal Compact Fluorescent Lamp reaches the end of its effective life when the Ultraviolet output drops below 80% of its initial value.

Preheat Start Lamps Availability

Lamps	UVC Output (W)	Lamps	UVC Output (W)
G10T5/4P/SE/OF	5.3	G25T8/OF	6.9
G6T5/OF	1.7	G36T5/4P/SE/OF	12.0
G8T5/OF	2.5	G36T5/G5/OF	12.0
G10T8/OF	2.7	G30T8/OF	13.4
G15T8/OF	4.9	G55T8/OF	18.0
G20T5/G5/OF	5.5	G64T5/4P/SE/OF	22.0

Instant Start Lamps Availability

Lamps	UVC Output (W)	Lamps	UVC Output (W)
G10T5/SP/OF	5.3	G36T5/SP/OF	12.0
G14T5/SP/OF	4.0	G64T5/SP/OF	22.0

Application Information

Applications

Air disinfection
Liquid Disinfection
Surface Disinfection
EPROM Erasure

Fixtures

Medium and miniature bipin lamps use the same sockets as general illumination fluorescent lamps.

Check with fixture manufacturer for compatibility of components with long-term exposure to 253.7 nm UVC energy.

Ballast Information

G6T5/OF, G8T5/OF, G15T8/OF, and G30T8/OF use same ballasts as general illumination fluorescent lamps.

For ballast information, please visit the electronic product catalog found on www.sylvania.com or www.mysylvania.com. Search for any germicidal lamp and view "Product Documents, Graphs, and Images".

Use with OSRAM SYLVANIA QUICKTRONIC® ballasts whenever available.

Application Notes

1. **WARNING:** To prevent possible serious injury, eyes and skin should not be exposed to direct or reflected ultraviolet power emitted by this lamp. This lamp is in **RISK GROUP 3** as noted in ANSI-IESNA RP-27.3.96. Adequate protection should be provided by clothing, gloves, opaque materials, and ordinary window glass. Although this lamp will operate in standard fluorescent fixtures, it should **not** be used for general lighting applications.
2. Germicidal Linear Fluorescent lamps may be operated in any position provided that the lamp holders/sockets holds the lamp securely in place.
3. The technical data provided are nominal values subject to variations due to application conditions.

Sample Specification

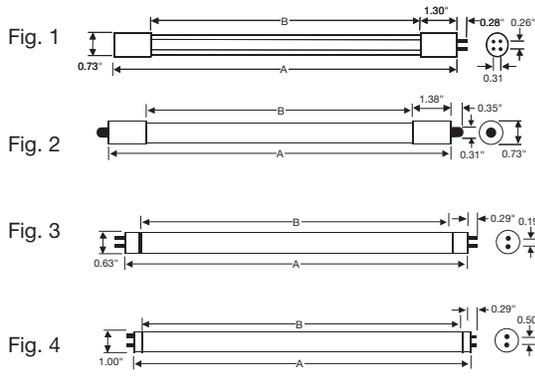
Lamp(s) shall be (T5, T8)
Germicidal Linear Fluorescent
Lamp(s) with the majority of (its,
their) ultraviolet energy radiated
at 253.7 nm. Lamp(s) shall not
produce ozone, shall have an
effective life of 6,000, 8,000 or
9,000 hours and use (G5, G13,
Single Pin or 4 PIN) bases.

Ordering and Specification Information

Item Number	Ordering Abbreviation ¹	Watts	Bulb	Base ²	ANSI Spec. No.	Effective Life ³ (hrs.)	UV Output (W)	Glass	Ozone Free	Starter ⁴	Fig.
Preheat Start Lamps											
23384	G10T5/4P/SE/OF	16	T5	G10q		9,000	5.3	Yes	Yes	FS-2	1
23381	G36T5/4P/SE/OF	39	T5	G10q		9,000	12.0	Yes	Yes	FS-4	1
23386	G64T5/4P/SE/OF	65	T5	G10q		9,000	22.0	Yes	Yes	NA	1
23375	G6T5/OF	6	T5	G5	C78.81-2003	6,000	1.7	Yes	Yes	FS-5	3
20811	G8T5/OF	8	T5	G5	C78.81-2003	8,000	2.5	Yes	Yes	FS-5	3
23387	G20T5/G5/OF	20	T5	G5		8,000	5.5	Yes	Yes	FS-2	3
23382	G36T5/G5/OF	39	T5	G5		9,000	12.0	Yes	Yes	FS-4	3
23374	G10T8/OF	10	T8	G13		8,000	2.7	Yes	Yes	FS-5	4
21612	G15T8/OF	15	T8	G13	C78.81-2003	8,000	4.9	Yes	Yes	FS-2	4
23376	G25T8/OF	25	T8	G13		8,000	6.9	Yes	Yes	FS-25	4
23112	G30T8/OF	30	T8	G13	C78.81-2003	8,000	13.4	Yes	Yes	FS-4	4
23388	G55T8/OF	55	T8	G13		8,000	18.0	Yes	Yes	FS-12	4
Instant Start Lamps											
23385	G10T5/SP/OF	16	T5	Fa8		9,000	5.3	Yes	Yes	NA	2
23383	G14T5/SP/OF	14	T5	Fa8		8,000	4.0	Yes	Yes	NA	2
23443	G36T5/SP/OF	36	T5	Fa8		9,000	12.0	Yes	Yes	NA	2
23442	G64T5/SP/OF	65	T5	Fa8		9,000	22.0	Yes	Yes	NA	2

- OF = Ozone Free
- Bases: G5 = Miniature bi-pin; G13 = Medium bi-pin; Fa8 = Single Pine (SP); G10q = 4 pin (4P)
- End of Effective Life occurs when UV output drops below 80% of initial output.
- Recommendation: Replace starter when replacing lamp. Equivalent lockout manual-reset & lockout automatic reset can also be used.

Dimensions



Lamp Type	(A)	(B)	Figure
	Face to Face Length (in)	Radiation Length (in)	
G6T5/OF	8.29	7.58	3
G8T5/OF	11.30	10.59	3
G10T8/OF	12.99	12.28	4
G14T5/SP/OF	11.30	8.54	2
G15T8/OF	17.17	16.46	4
G10T5/4P/SE/OF	14.06	11.46	1
G10T5/SP/OF	14.06	11.30	2
G20T5/G5/OF	15.75	15.04	3
G25T8/OF	17.17	16.46	4
G36T5/4P/SE/OF	33.07	30.47	1
G36T5/G5/OF	33.31	32.60	3
G36T5/SP/OF	33.31	30.55	2
G30T8/OF	35.16	34.45	4
G55T8/OF	35.16	34.45	4
G64T5/4P/SE/OF	61.16	58.56	1
G64T5/SP/OF	61.16	58.40	2

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Special Markets

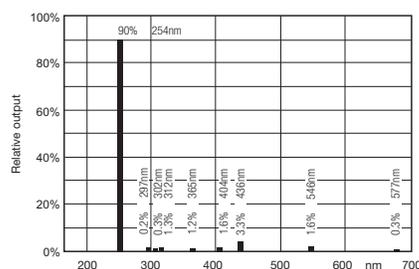
Phone: 1-800-265-2852
Fax: 1-800-667-6772

Ordering Guide

G	36	T5/T8	Base	SE	OF
Germicidal	Wattage	Bulb	G5, SP, 4P	Single End	Ozone Free
	6, 8, 10, 14, 15, 20, 25, 30	T5, T8			
Germicidal	Standard	Bulb	G5, SP, 4P	Single End	Ozone Free
FT	Types 36 & 64	T5			

Technical Information

Spectral Energy Distribution of Germicidal Lamp



Maintenance

