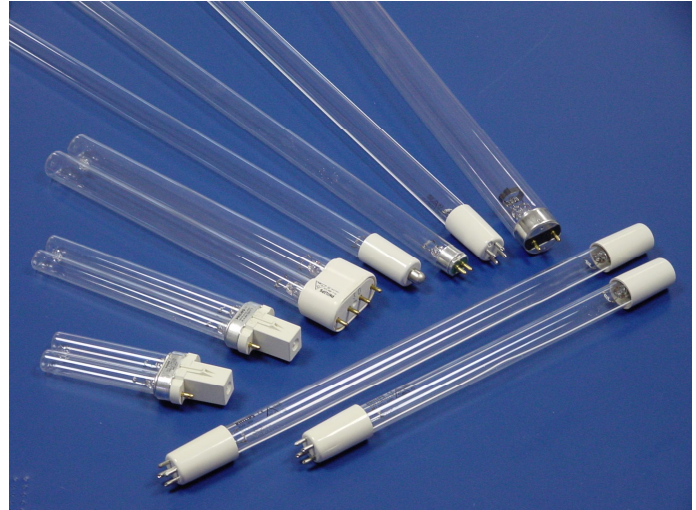


Trade program Philips special lamps TUV

UV-C lamps of the type TUV have their main radiation at 253.7 nm. By using special glass generally no ozone generating radiation is produced. TUV lamps have a special Long Life inner coating. Therefore you reach a high useful lifetime with low depreciation of radiation.

Applications

- deactivation of microorganisms (disinfection)
- various photochemical and photobiological processes
- irradiation of certain, in this area sensitive photopolymers
- analysis
- stimulation of fluorescence
- EPROM ultraviolet erasing



Design types

Abb. 1

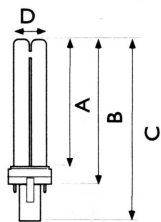


Abb. 2

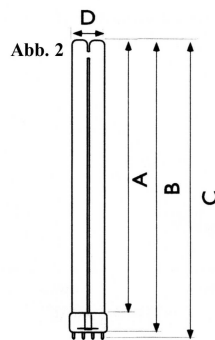


Abb. 6

TUV 6 W-E

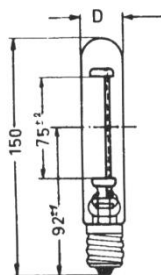


Abb. 7

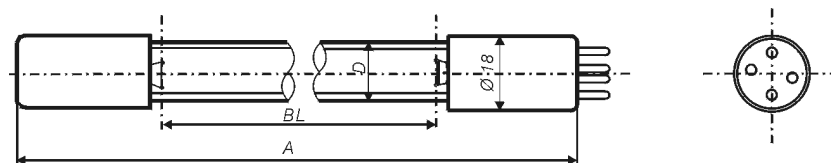
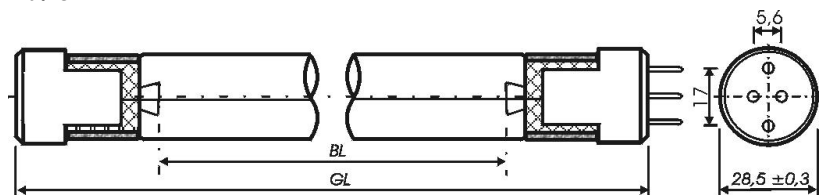


Abb. 8



Electrical and radiation physics data

TUV type	connector base	design type fig.	lamp power [W _{el}]	lamp voltage [V]	lamp current [A]	UVC @100 h [W _{uv-c}]	life time [L _h]	depreciation @lifetime* [%]	recommended electronic power supply
TUV 6W-E ¹⁾	E27	6	6		0,027	0,085	2500	25	for use at 230 V direct
TUV T5 TL Mini	base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV 4W	G5	3	4	29	0,17	0,9	6000	20	HF-M 105, EVG UVT 4-9/11W
TUV 6W	G5	3	6	42	0,16	1,5	9000	20	HF-M 109, EVG UVT 4-9/11W
TUV 8W	G5	3	8	56	0,15	2,4	11000	15	HF-M 109, EVG UVT 4-9/11W
TUV 11W	G5	3	11	26	0,43	2,6	11000	15	EVG UVT 11-16W
TUV 16W	G5	3	15	43	0,4	4,0	11000	15	EVG UVT 11-16W
TUV 20W	G5	3	20	45	0,45	6,0	11000	15	HF-P1 14-35, EVG UVT 16-25W
TUV 25W	G5	3	25	55	0,45	7,2	5000	15	HF-P1 14-35, EVG UVT 16-25W
TUV 6W 4P SE	G10q	7	6	42	0,16	1,7	9000	20	HF-M 109, EVG UVT 4-9/11W
TUV 11W 4P SE	G10q	7	11	26	0,43	2,6	9000	15	EVG UVT 11-16W
TUV 16W 4P SE	G10q	7	15	43	0,4	4,0	9000	15	EVG UVT 11-16W
TUV 25W 4P SE	G10q	7	25	55	0,45	8,0	9000	15	HF-P1 14-35, EVG UVT 16-25W
TUV T5	Base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV 36T5	G5	3	40	97	0,425	14,0	9000	15	HF-P 136/158, EVG UVT 40W
TUV 36T5 HE SP	1 Pin	3a	40	97	0,425	14,0	9000	15	HF-P 136/158, EVG UVT 40W
TUV 36T5 HE 4P SE	G10q	7	40	97	0,425	14,0	9000	15	HF-P 136/158, EVG UVT 40W
TUV 36T5 HO 4P SE	G10q	7	75	97	0,8	23,0	9000	15	EVG UVT 75WHO
TUV 64T5	G5	3	75	176	0,43	30,0	9000	15	HF-P180, EVG UVT 2x 60-100W
TUV 64T5 HE SP	1 Pin	3a	75	176	0,43	30,0	9000	15	HF-P180, EVG UVT 2x 60-100W
TUV 64T5 HE 4P SE ¹⁾	G10q	7	75	176	0,43	30,0	9000	15	HF-P180, EVG UVT 2x 60-100W
TUV 64T5 HO 4P SE	G10q	7	145	175	0,8	48,0	9000	20	EVG UVT 40-150W
TUV T8	Base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV 10W	G13	4	9	44,5	0,23	2,5	9000	15	HF-P118
TUV 15W	G13	4	15,9	54	0,335	5,1	18000	10	HF-P118, EVG UVT 11-16W
TUV T8 F17	G13	4	16,7	72	0,265	4,5	9000	20	auf Anfrage
TUV 25W	G13	4	25,5	48	0,6	7,5	18000	15	EVG UVT 16-25W
TUV 30W	G13	4	30	102	0,37	13,1	18000	10	HF-P136, EVG UVT 40W
TUV 36W	G13	4	36	103	0,44	14,7	18000	10	HF-P136, EVG UVT 40W
TUV 55W HO	G13	4	54	86	0,77	17,5	18000	10	EVG UVT 55WHO
TUV 75W HO	G13	4	75	110	0,84	28,1	18000	10	EVG UVT 75WHO
TUV TL-D 95W HO	G13	4	95	124	0,62	22,5	8000	10	EVG UVT 2x 80-125W
TUV 115W VHO ⁴⁾	G13	5	104	69	1,5	34	9000	35	EVG UVT 40-150W
TUV 115W R VHO ³⁾	G13	5	115	92	1,5	33,5	5000	20	EVG UVT 40-150W
TUV PL-S	Base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV PL-S 5W/2P	G23 ²⁾	1	5,5	35	0,18	1,0	9000	20	HF-M 105, EVG UVT 4-9/11W
TUV PL-S 5W/4P	2G7	2	5,1	27	0,19	1,0	9000	15	HF-M 105, EVG UVT 4-9/11W
TUV PL-S 7W/2P	G23 ²⁾	1	7,1	46	0,18	1,5	9000	20	HF-M 109, EVG UVT 4-9/11W
TUV PL-S 9W/2P	G23 ²⁾	1	9	60	0,17	2,2	9000	20	HF-M 109, EVG UVT 4-9/11W
TUV PL-S 9W/4P	2G7	2	9	60	0,17	2,2	9000	20	HF-M 109, EVG UVT 4-9/11W
TUV PL-S 11W/2P	G23 ²⁾	1	11,6	89	0,16	3,2	9000	20	HF-P1 13-17
TUV PL-S 11W/4P	2G7	2	11,6	89	0,16	3,5	9000	20	HF-P1 13-17, EVG UVT 4-9/11W
TUV PL-S 13W/2P	GX23 ²⁾	2	13	56	0,29	3,4	9000	20	HF-P1 13-17
TUV PL-L	base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV PL-L 18W/4P	2G11	2	18	60	0,37	5,5	9000	15	HF-M 124
TUV PL-L 24W/4P	2G11	2	24	87	0,35	7,0	9000	15	HF-M 124
TUV PL-L 36W/4P	2G11	2	36	106	0,44	12,0	9000	15	HF-P 136, EVG UVT 40W
TUV PL-L 55W/4P	2G11	2	55	105	0,54	17,0	9000	15	HF-P154/155, EVG UVT 55WHO
TUV PL-L 35W/4P HO	2G11	2	35	42	0,85	11,0	9000	15	EVG UVT 40WHO
TUV PL-L 60W/4P HO	2G11	2	65	82	0,8	19,0	9000	20	EVG UVT 75WHO
TUV PL-L 95W/4P HO	2G11	2	90	115	0,8	27,0	9000	15	EVG UVT 2x 80-125W
amalgam types	base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV 130W XPT SE	G10q	7	140	67	2,1	46	12000	10	TUV 130W driver, EVG UVT 80-200W
TUV 180W XPT SE	G10q	7	180	90	2,1	61	12000	10	TUV 180-200W driver, EVG UVT 80-200W
TUV 200W XPT T6	G10q	7	200	94	2,1	66	12000	10	TUV 180-200W driver, EVG UVT 80-200W
TUV 325W XPT T6	G10q	7	305	160	2,0	115	12000	10	TUV 325W driver, EVG UVT 200-400W
TUV 330W XPT T6	G10q	7	275	78	3,6	97	12000	10	EVG UVT 200-480W
TUV 800W XPT T6	G10q	7	815	103	8,0	265	12000	10	Nedap
DynaPower system	base	fig.	[W _{el}]	[V]	[A]	[W _{uv-c}]	[L _h]	[%]	EPS
TUV230W WE XPT SE	4 Pin	8	255	83	3,1	90	12000	15	DynaPower
TUV260W XPT DIM	4 Pin	8	268	78	3,5	100	12000	15	DynaPower
TUV335W XPT SE	4 Pin	8	325	72	4,6	107	12000	15	DynaPower
TUV335W WP XPT SE	4 Pin	8	325	72	4,6	107	12000	15	DynaPower

* depreciation based on the 100 h value

1) available as rapid start and instant start type 2) Starter is integrated in the base 3) not longer available

4) not longer available as Philips product – replacement product UVN 115 2A G13 38/1200 VHO has slightly lower power (see noted values)

Geometrical data

TUV type	connector base	design type fig.	arc length BL [mm]	total length A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	Ø glass ¹⁾ /base D max. [mm]	weight [g]
TUV 6W-E ¹⁾	E27	6	95	see figure				26,0	55
TUV T5 TL Mini	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV 4W	G5	3	83	135,9	143,0	140,6	150,1	16	16
TUV 6W	G5	3	157	212,1	219,2	216,8	226,3	16	22
TUV 8W	G5	3	233	288,3	295,4	293,0	302,5	16	29
TUV 11W	G5	3	161	212,1	219,2	216,8	226,3	16	22
TUV 16W	G5	3	237	288,3	295,4	293,0	302,5	16	29
TUV 20W	G5	3	348	398,0	405,1	402,7	412,2	16	38
TUV 25W	G5	3	466	516,9	524,0	521,6	531,1	16	55
TUV 6W T5 4P SE	G10q	7	157	244,1	253		251,8	16/19	31
TUV 11W T5 4P SE	G10q	7	161	241,1	250		248,4	16/19	31
TUV 16W T5 4P SE	G10q	7	237	317,3	325		324,6	16/19	36
TUV 25W T5 4P SE	G10q	7	455	546	554			16/19	55
TUV T5	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV 36T5	G5	3	762	812	820		826	16/19	61
TUV 36T5 HE SP	1 Pin	3a	762	845,4	850		863,9	16/19	72
TUV 36T5 HE 4P SE	G10q	7	762	845,4	850		853,1	16/19	73
TUV 36T5 HO 4P SE	G10q	7		842,4	850		849,5	16/19	73
TUV 64T5	G5	3	1473	1524			1542	16/19	129
TUV 64T5 HE SP	1 Pin	3a	1473	1553,6	1560		1571,7	16/19	144
TUV 64T5 HE 4P SE ¹⁾	G10q	7	1473	1556,6	1560		1564,5	16/19	144
TUV 64T5 HO 4P SE	G10q	7		1556,6	1560		1564,5	16/19	144
TUV T8	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV 10W	G13	4	250	331,5	336,2	338,6	345,7	28	62
TUV 15W	G13	4	355	437,4	444,5	442,1	451,6	28	75
TUV T8 F17	G13	4	508	589,8	596,9		604,0	28	75
TUV 25W	G13	4	355	437,4	444,5	442,1	451,6	28	75
TUV 30W	G13	4	813	894,6	901,7	899,3	908,8	28	140
TUV 36W	G13	4	1130	1199,4	1206,5	1204,1	1213,6	28	186
TUV 55W HO	G13	4	813	894,6	901,7	898,3	908,8	28	140
TUV 75W HO	G13	4	1130	1199,4	1206,5	1204,1	1213,6	28	186
TUV TL-D 95W HO	G13	4	1430	1500	1507,1	1504,7	1514,2	28	160
TUV 115W VHO ²⁾	G13	5	1115	1198,2				38	290
TUV 115W R VHO ³⁾	G13	5	1130	1199,1	1206,5	1204,1	1213,6	40,5	293
TUV PL-S	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV PL-S 5W/2P	G23 ⁴⁾	1	55	67,0	83,0		105,0	28x13	30
TUV PL-S 5W/4P	2G7	2	55	65,2	83,0		89,0	28x13	20
TUV PL-S 7W/2P	G23 ⁴⁾	1	84	97,0	112,5		135,5	28x13	35
TUV PL-S 9W/2P	G23 ⁴⁾	1	110	129,0	145,0		167,0	28x13	41
TUV PL-S 9W/4P	2G7	2	110	129,0	145,0		151,0	28x13	29
TUV PL-S 11W/2P	G23 ⁴⁾	1	185	198,0	213,3		236,0	28x13	58
TUV PL-S 11W/4P	2G7	2	185	198,0	213,3		119,9	28x13	46
TUV PL-S 13W/2P	GX23 ⁴⁾	2	126	139,5	155,2		178,2	28x13	62
TUV PL-L	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV PL-L 18W/4P	2G11	2	175	195,0	220,0		225,0	38x18	66
TUV PL-L 24W/4P	2G11	2	270	290,0	315,0		320,0	38x18	78
TUV PL-L 36W/4P	2G11	2	365	385,0	410,0		415,0	38x18	114
TUV PL-L 55W/4P	2G11	2	495	505,0	530,0		535,0	38x18	132
TUV PL-L 35W/4P HO	2G11	2	175	195,0	220,0		226,0	38x18	66
TUV PL-L 60W/4P HO	2G11	2	365	385,0	410,0		415,0	38x18	114
TUV PL-L 95W/4P HO	2G11	2	495	505,0	530,0		535,0	38x18	132
amalgam types	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV 130W XPT SE	G10q	7	740	842				19	
TUV 180W XPT SE	G10q	7	930	1032				19	
TUV 200W XPT T6	G10q	7	1040	1147				19	
TUV 325W XPT T6	G10q	7	1480	1582				19	
TUV 330W XPT T6	G10q	7	1440	1556				32	
TUV 800W XPT T6	G10q	7	1609	1791				38	
DynaPower system	base	fig.	BL [mm]	A max. [mm]	B max. [mm]	B min. [mm]	C max. [mm]	D max. [mm]	weight [g]
TUV230W WE XPT SE	4 Pin	8	1400	1514				25	
TUV260W XPT DIM	4 Pin	8	1400	1514				32	
TUV335W XPT SE	4 Pin	8	1400	1514				32	
TUV335W WP XPT SE	4 Pin	8	1400	1514				32	

¹⁾ The maximum dimension for the diameter includes the not roundness of the lamp glass as well as eccentricity against the lamp axis.