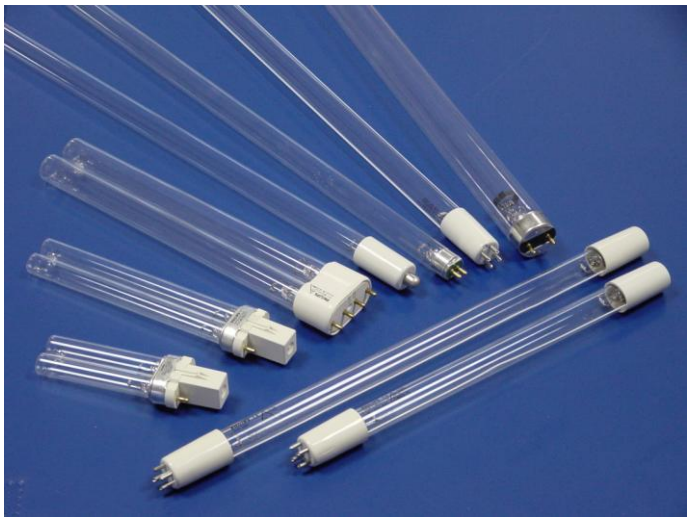
# Trade program Philips special lamps TUV

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



## Description

Abb. 1

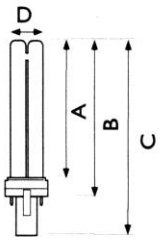
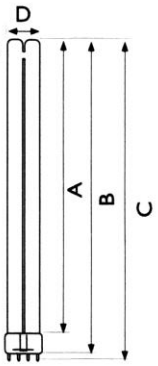



Abb. 2



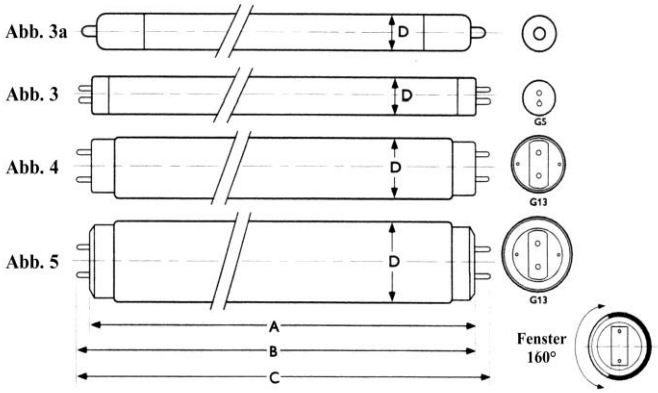




Abb. 6

TUV 6 W-E

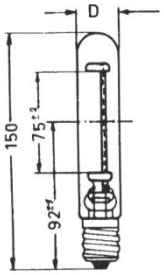



Abb. 7

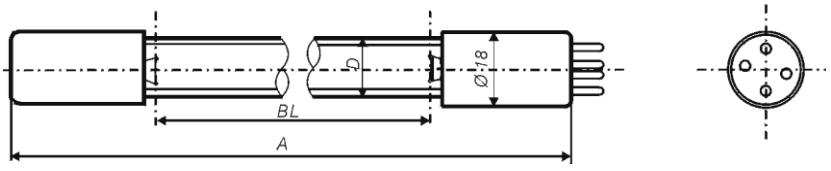
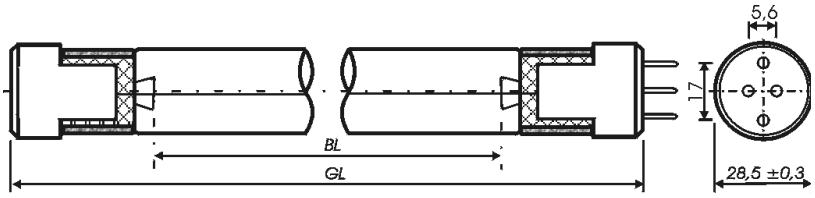



Abb. 8



## Electric and radiation physical data

| type | lamp power Wel | radiation flux Φ Wuv-c | life-time Lh | depreciation 8000 h % | lamp voltage V | lamp current A | circuit in connection with conventional ballast + starters or Electronic ballast (EVG) |
|---|---|---|---|---|---|---|---|
| **TUV 6W-E** [1)] | 6 | 0.085 | 2500 | 25 | | 0.027 | run directly with 220 V |
| **T5 types** | **Wel** | **Wuv-c** | **Lh** | **depr. %** | **V** | **A** | **konventional or electronic ballast** |
| **TUV 4W T5** | 4 | 0.6 | 8000 | 15 | 29 | 0.17 | EC4/8 or HF-M 105 |
| **TUV 6W T5** | 6 | 1.3 | 8000 | 15 | 44 | 0.16 | EC4/8 or HF-M 109 |
| **TUV 8W T5** | 8 | 2.0 | 8000 | 15 | 56 | 0.15 | EC4/8 or HF-M 109 |
| **TUV 11W T5** | 11 | 3.0 | 9000 | 25 | 37 | 0.33 | EC15 or EVG 11/16E |
| **TUV 16W T5** | 16 | 4.3 | 9000 | 25 | 45 | 0.38 | EC 20 or EVG 11/16E |
| **TUV 25W T5** | 28 | 8.8 | 9000 | 20 | 68 | 0.49 | BTA18 or HFP 1 24-39T5 HO |
| **TUV 36 T5** | 40 | 15.0 | 9000 | 15 | 94 | 0.43 | BTA36L31 or EB-P, EPS-A 2x150 |
| **TUV 36 T5 HO** | 75 | 25.0 | 9000 | 20 | 97 | 0.8 | EB-P 80-800 mA, EPS-A 2x150 |
| **TUV 64 T5** | 75 | 30.0 | 9000 | 15 | 176 | 0.43 | EB-P 80-425 mA, EPS-A 2x150 |
| **TUV 64 T5 HO** | 145 | 48.0 | 9000 | 20 | 175 | 0.8 | EB-P 150-800 mA, EPS-A 2x150 |
| **T8 types** | **$W_{el}$** | **$W_{uv-c}$** | **$L_h$** | **depr. %** | **V** | **A** | **konventional or electronic ballast** |
| **TUV 10W** | 10 | 2.5 | 8000 | 15 | 45 | 0.23 | el. ballast available on request |
| **TUV 15W** | 15 | 4.0 | 8000 | 15 | 51 | 0.34 | EC 15 or EB-P, EPS-A 2x150 |
| **TUV 25W** | 25 | 7.0 | 8000 | 15 | 46 | 0.6 | UXG 25 or EB-P, EPS-A 2x150 |
| **TUV 30W** | 30 | 11.0 | 8000 | 15 | 100 | 0.37 | BTA30L31 or EB-P, EPS-A 2x150 |
| **TUV 36W** | 36 | 14.6 | 8000 | 15 | 103 | 0.44 | BTA36L31 or EB-P, EPS-A 2x150 |
| **TUV 55W HO** | 55 | 18.0 | 8000 | 15 | 83 | 0.77 | BTA58L31 or EB-P, EPS-A 2x150 |
| **TUV 75W HO** | 75 | 25.0 | 8000 | 15 | 108 | 0.81 | EB-P, EPS-A 2x150 |
| **TUV TL-D 95W HO** | 60 | 22.5 | 5000 | 15 | 120 | 0.62 | EPS-A 2x150, EB-D200E, weitere |
| **TUV 115W VHO** | 115 | 34.0 | 5000 | 15 | 92 | 1.50 | 2xBTA58L31 parallel or EB-D200 |
| **TUV 115W R VHO** | 115 | 27.0 | 5000 | 20 | 92 | 1.50 | 2xBTA58L31 parallel or EB-D200 |
| **U shape types** | **$W_{el}$** | **$W_{uv-c}$** | **$L_h$** | **depr. %** | **V** | **A** | **conventional or electronic ballast** |
| **TUV 5W PL-S** | 5 | 1.0 | 8000 | 15 | 34 | 0.18 | EC 4/8 ** or HF-M 105 |
| **TUV 9W PL-S** | 9 | 2.1 | 8000 | 15 | 60 | 0.17 | L13.313 ** or HF-M 109 |
| **TUV 11W PL-S** | 11 | 3.6 | 8000 | 15 | 89 | 0.16 | L13.313 ** or HF-M 114 |
| **TUV 18W PL-L** | 18 | 5.0 | 8000 | 15 | 60 | 0.37 | BTA18L31 or EVG |
| **TUV 36W PL-L** | 36 | 12.0 | 8000 | 15 | 105 | 0.44 | BTA36L31 or EVG |
| **TUV 55W HF PL-L** | 55 | 17.0 | 8000 | 15 | 103 | 0.54 | EB-P, EPS-A 2x150 |
| **TUV 35W HO PL-L** | 35 | 11.0 | 8000 | 15 | 40 | 0.85 | EB-P, EPS-A 2x150 |
| **TUV 60W HO PL-L** | 60 | 18.0 | 8000 | 20 | 118 | 0.67 | BTA58L31, EB-P, EPS-A 2x150 |
| **TUV 95W HO PL-L** | 95 | 32.0 | 8000 | 15 | 100 | 0.95 | EB-P, EPS-A 2x150 |
| **Amalgam types** | **$W_{el}$** | **$W_{uv-c}$** | **$L_h$** | **depr. %** | **V** | **A** | **konventional or electronic ballast** |
| **TUV 130W XPT T6** | 146 | 50 | 12000 | 15 | 71 | 2.1 | EB-D200A |
| **TUV 240W XPT T6** | 243 | 86 | 12000 | 15 | 134 | 1.8 | EB-D400, EPS-A500 |
| **TUV 325W XPT T6** | 280 | 100 | 12000 | 15 | 141 | 2.0 | EB-D400, EPS-A500 |
| **TUV 250W XPT T8** | 255 | 90 | 12000 | 15 | 83 | 3.1 | EB-D400, EPS-A500 |
| **TUV 270W XPT T10** | 268 | 100 | 12000 | 15 | 78 | 3.5 | EPS-A500 |
| **TUV 330W XPT T10** | 325 | 107 | 12000 | 15 | 72 | 4.6 | EPS-A500 |

* depreciation of radiation after 8.000 h, according to the 100-h-value (except TUV6W-E)

** starter is already integrated into the base,

[1)] not available as Philips version anymore – substitude deliveryman

EC, BTA - conventional ballast types (chokes); HF, EVG, EB, EPS - electronic ballast types

## Geometrical data

| Type | base | arc length mm | A max. mm | B max. mm | B min. mm | C max. mm | D max. [1] mm | illustration | weight g |
|---|---|---|---|---|---|---|---|---|---|
| **TUV 6W-E** | E27 | 95 | see illustration 6 | | | | 26.0 | 6 | 55 |
| **T5 types** | | | | | | | | | |
| **TUV 4W T5** | G5 | 83 | 135.9 | 143.0 | 140.6 | 150.1 | 16.0 | 3 | 16 |
| **TUV 6W T5** | G5 | 157 | 212.1 | 219.2 | 216.8 | 226.3 | 16.0 | 3 | 22 |
| **TUV 8W T5** | G5 | 233 | 288.3 | 295.4 | 293.0 | 302.5 | 16.0 | 3 | 29 |
| **TUV 11W T5** | G5 | 161 | 212.1 | 219.2 | 216.8 | 226.3 | 16.0 | 3 | 22 |
| **TUV 11W T5 4P-SE** | 4P-SE | 161 | 241.1 | | | 248.4 | 16.0 | 7 | 31 |
| **TUV 16W T5** | G5 | 237 | 288.3 | 295.4 | 293.0 | 302.5 | 16.0 | 3 | 29 |
| **TUV 16W T5 4P-SE** | 4P-SE | 237 | 317.3 | | | 324.6 | 16.0 | 7 | 36 |
| **TUV 25W 4P SE** | 4P-SE | 466 | 545.9 | | | 553.2 | 16.0 | 7 | 55 |
| **TUV 36 T5 SP** | single-pin | 762 | 842.4 | | | 860.5 | 16.0 | 3a | 72 |
| **TUV 36 T5** | G5 | 762 | 812 | | | 826 | 16.0 | 3 | 61 |
| **TUV 36 T5 4P-SE** | 4P-SE | 762 | 842.4 | | | 849.5 | 16.0 | 7 | 73 |
| **TUV 36 T5 HO 4P-SE** | 4P-SE | 762 | 842.4 | | | 849.5 | 16.0 | 7 | 73 |
| **TUV 64 T5 SP** | single-pin | 1473 | 1553.6 | | | 1571.7 | 16.0 | 3a | 146 |
| **TUV 64 T5** | G5 | 1473 | 1524 | | | 1542 | 16.0 | 3 | 129 |
| **TUV 64 T5 4P-SE** | 4P-SE | 1473 | 1553.6 | | | 1561 | 16.0 | 7 | 144 |
| **TUV 64 T5 HO 4P-SE** | 4P-SE | 1473 | 1553.6 | | | 1561 | 16.0 | 7 | 144 |
| **T8 types** | | | | | | | | | |
| **TUV 10W** | G13 | 250 | 331.5 | 336.2 | 338.6 | 345.7 | 28.0 | 4 | 62 |
| **TUV 15W** | G13 | 355 | 437.4 | 444.5 | 442.1 | 451.6 | 28.0 | 4 | 75 |
| **TUV 25W** | G13 | 355 | 437.4 | 444.5 | 442.1 | 451.6 | 28.0 | 4 | 75 |
| **TUV 30W** | G13 | 813 | 894.6 | 901.7 | 899.3 | 908.8 | 28.0 | 4 | 140 |
| **TUV 36W** | G13 | 1130 | 1199.4 | 1206.5 | 1204.1 | 1213.6 | 28.0 | 4 | 186 |
| **TUV 55W HO** | G13 | 813 | 894.6 | 901.7 | 898.3 | 908.8 | 28.0 | 4 | 140 |
| **TUV 75W HO** | G13 | 1130 | 1199.4 | 1206.5 | 1204.1 | 1213.6 | 28.0 | 4 | 186 |
| **TUV TL-D 95W HO** | G13 | 1430 | 1500 | 1507.1 | 1504.7 | 1514.2 | 28.0 | 4 | 160 |
| **TUV 115W VHO** | G13 | 1130 | 1199.1 | 1206.5 | 1204.1 | 1213.6 | 40.5 | 5 | 290 |
| **TUV 115W-R VHO** | G13 | 1130 | 1199.1 | 1206.5 | 1204.1 | 1213.6 | 40.5 | 5 | 293 |
| **U shape types** | | | | | | | | | |
| **TUV 5W PL-S** | G23 | 55 | 67.0 | 83.0 | | 105.0 | 28x13 | 1 | 30 |
| **TUV 9W PL-S** | G23 | 110 | 129.0 | 145.0 | | 167.0 | 28x13 | 1 | 41 |
| **TUV 11W PL-S** | G23 | 185 | 198.0 | 214.0 | | 236.0 | 28x13 | 1 | 58 |
| **TUV 18W PL-L** | 2G11 | 175 | 195.0 | 220.0 | | 228.0 | 38x18 | 2 | 66 |
| **TUV 36W PL-L** | 2G11 | 365 | 385.0 | 410.0 | | 418.0 | 38x18 | 2 | 114 |
| **TUV 55W HF PL-L** | 2G11 | 495 | 505.0 | 535.0 | | 543.0 | 38x18 | 2 | 132 |
| **TUV 35W HO PL-L** | 2G11 | 175 | 195.0 | 220.0 | | 228.0 | 38x18 | 2 | 66 |
| **TUV 60W HO PL-L** | 2G11 | 365 | 385.0 | 410.0 | | 418.0 | 38x18 | 2 | 114 |
| **TUV 95W HO PL-L** | 2G11 | 495 | 505.0 | 535.0 | | 543.0 | 38x18 | 2 | 132 |
| **Amalgam types** | | | | | | | | | |
| **TUV 130W XPT T6** | G10.2q | 740 | 840 | | | | 19.0 | 7 | |
| **TUV 240W XPT T6** | G10.2q | 1480 | 1600 | | | | 19.0 | 7 | |
| **TUV 325W XPT T6** | G10.2q | 1480 | 1580 | | | | 19.0 | 7 | |
| **TUV 250W XPT T8** | see illustration 8 | 1410 | 1510 | | | | 25.5 | 8 | |
| **TUV 270W XPT T10** | see illustration 8 | 1440 | 1520 | | | | 32.0 | 8 | 496 |
| **TUV 330W XPT T10** | see illustration 8 | 1440 | 1520 | | | | 32.0 | 8 | 496 |

[1] The maximum measure for the cross-section also includes the out-of-roundness of the ram and electricity against the axis of the lamp