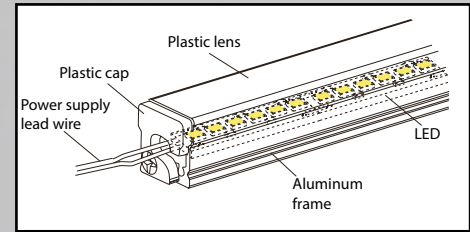


FGG

LED Line Module

Made to fit your projects.



- High efficiency SMD LED
- Compact standard high diffusion profile
- Enhanced CRI Ra 80~95
- Aluminium frame with magnet

FGG - 1000 - NZ-KMG

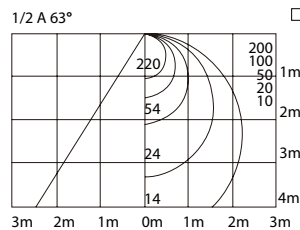
- 1 Fixture name : FGG
 2 Length : Please check frame size reference table
 3 LED colors : L22 = Light bulb (2200K) L25 = Light bulb (2500K)
 L27 = Light bulb (2700K) L30 = Light bulb (3000K)
 WW = Warm white (3500K) W = White (4000K)
 NW Neutral white = (4500K) N = Neutral white (5000K) DN = (5700K) D = Daylight (6500K)
 4 Color rendering: None = Ra ≥ 80 Z = Ra ≥ 95
 5 Connector: K = one side connector
 6 Fixation : CR = Mounting clip
 MG = Magnet (option)

Environment of use : indoor cove / display lighting / accent lighting
 Maximum length in series : 2485 mm
 Driver : DC 24V

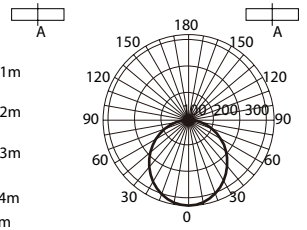
Photometric data

Measured fixture: FGG-505-N (5000K)

Light Intensity distribution



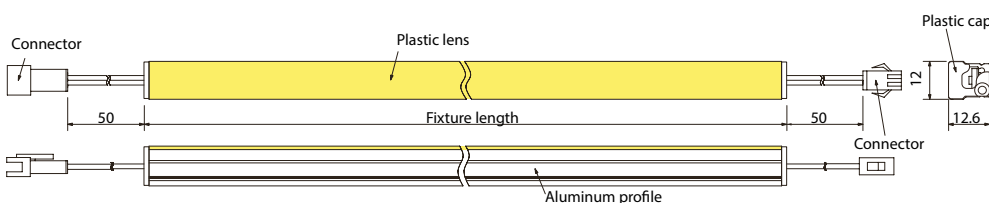
Candlepower Distribution



DC 24V specifications

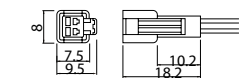
| Reference | Length (mm) | LED board length (mm) | Number of LED | CRI (Ra) | Watts (W) | Amps (A) | Maximum length (mm) | Luminous flux (lm) |
|------------|-------------|-----------------------|---------------|----------|-----------|----------|---------------------|--------------------|
| FGG-1000 | 1000 | 990 | 216 | ≥ 80 | 15.5 | 0.65 | 2485 | 1190 |
| FGG-1000-Z | 1000 | 990 | 216 | ≥ 95 | 15.9 | 0.66 | 2485 | 945 |

Fixtures Dimensions

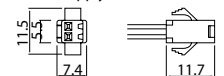


Unit (mm)

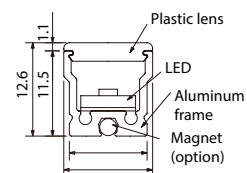
Connectors dimensions



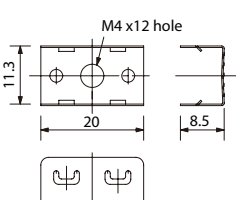
Power supply out:



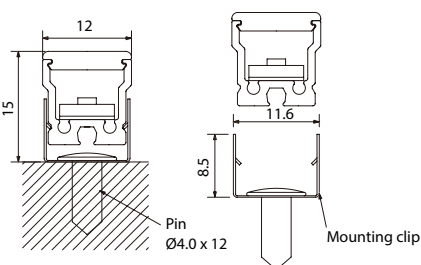
Cross sectional view



Mounting clip dimensions



Mounting dimension specification



Order made sizes by color rendering

| Standard Ra ≥ 80 | | | | High color rendering Ra ≥ 95 | | | |
|------------------|-------------|-------------|--------------------|------------------------------|-------------|-------------|--------------------|
| Length (mm) | Watts (W) | Amps (A) | Luminous flux (lm) | Length (mm) | Watts (W) | Amps (A) | Luminous flux (lm) |
| 38 | 0.4 | 0.02 | 33 | 38 | 0.5 | 0.02 | 26 |
| 65 | 0.9 | 0.04 | 66 | 65 | 0.9 | 0.04 | 53 |
| 92.5 | 1.3 | 0.05 | 99 | 92.5 | 1.4 | 0.06 | 79 |
| 120 | 1.7 | 0.07 | 132 | 120 | 1.8 | 0.08 | 105 |
| 147.5 | 2.2 | 0.09 | 165 | 147.5 | 2.3 | 0.09 | 131 |
| 175 | 2.6 | 0.11 | 198 | 175 | 2.7 | 0.11 | 158 |
| 202.5 | 3.0 | 0.13 | 231 | 202.5 | 3.2 | 0.13 | 184 |
| 230 | 3.4 | 0.14 | 264 | 230 | 3.6 | 0.15 | 210 |
| 257.5 | 3.9 | 0.16 | 297 | 257.5 | 4.1 | 0.17 | 236 |
| 285 | 4.3 | 0.18 | 331 | 285 | 4.5 | 0.19 | 263 |
| 312.5 | 4.7 | 0.20 | 364 | 312.5 | 5.0 | 0.21 | 289 |
| 340 | 5.2 | 0.22 | 397 | 340 | 5.4 | 0.23 | 315 |
| 367.5 | 5.6 | 0.23 | 430 | 367.5 | 5.9 | 0.24 | 341 |
| 395 | 6.0 | 0.25 | 463 | 395 | 6.3 | 0.26 | 368 |
| 422.5 | 6.5 | 0.27 | 496 | 422.5 | 6.8 | 0.28 | 394 |
| 450 | 6.9 | 0.29 | 529 | 450 | 7.2 | 0.30 | 420 |
| 477.5 | 7.3 | 0.31 | 562 | 477.5 | 7.7 | 0.32 | 446 |
| 505 | 7.7 | 0.32 | 595 | 505 | 8.1 | 0.34 | 492 |
| 532.5 | 8.2 | 0.34 | 628 | 532.5 | 8.6 | 0.36 | 499 |
| 560 | 8.6 | 0.36 | 661 | 560 | 9.0 | 0.38 | 525 |
| 587.5 | 9.0 | 0.38 | 694 | 587.5 | 9.4 | 0.39 | 551 |
| 615 | 9.5 | 0.40 | 727 | 615 | 9.9 | 0.41 | 578 |
| 642.5 | 9.9 | 0.41 | 760 | 642.5 | 10.3 | 0.43 | 604 |
| 670 | 10.3 | 0.43 | 793 | 670 | 10.7 | 0.45 | 630 |
| 697.5 | 10.8 | 0.45 | 826 | 697.5 | 11.2 | 0.47 | 656 |
| 725 | 11.2 | 0.47 | 859 | 725 | 11.6 | 0.48 | 683 |
| 752.5 | 11.6 | 0.49 | 892 | 752.5 | 12.0 | 0.50 | 709 |
| 780 | 12.0 | 0.50 | 925 | 780 | 12.5 | 0.52 | 735 |
| 807.5 | 12.5 | 0.52 | 958 | 807.5 | 12.9 | 0.54 | 761 |
| 835 | 12.9 | 0.54 | 991 | 835 | 13.3 | 0.56 | 788 |
| 862.5 | 13.3 | 0.56 | 1025 | 862.5 | 13.8 | 0.57 | 814 |
| 890 | 13.8 | 0.58 | 1058 | 890 | 14.2 | 0.59 | 840 |
| 917.5 | 14.2 | 0.59 | 1091 | 917.5 | 14.6 | 0.61 | 866 |
| 945 | 14.6 | 0.61 | 1124 | 945 | 15.1 | 0.63 | 893 |
| 972.5 | 15.1 | 0.63 | 1157 | 972.5 | 15.5 | 0.65 | 919 |
| 1000 | 15.5 | 0.65 | 1190 | 1000 | 15.9 | 0.66 | 945 |
| 1027.5 | 15.9 | 0.67 | 1223 | 1027.5 | 16.4 | 0.68 | 971 |
| 1055 | 16.3 | 0.68 | 1256 | 1055 | 16.8 | 0.70 | 998 |
| 1082.5 | 16.8 | 0.70 | 1289 | 1082.5 | 17.3 | 0.72 | 1024 |
| 1110 | 17.2 | 0.72 | 1322 | 1110 | 17.7 | 0.74 | 1050 |
| 1137.5 | 17.6 | 0.74 | 1355 | 1137.5 | 18.1 | 0.76 | 1076 |
| 1165 | 18.1 | 0.76 | 1388 | 1165 | 18.6 | 0.77 | 1103 |
| 1192.5 | 18.5 | 0.78 | 1421 | 1192.5 | 19.0 | 0.79 | 1129 |
| 1220 | 18.9 | 0.79 | 1454 | 1220 | 19.4 | 0.81 | 1155 |
| 1247.5 | 19.4 | 0.81 | 1487 | 1247.5 | 19.9 | 0.83 | 1181 |

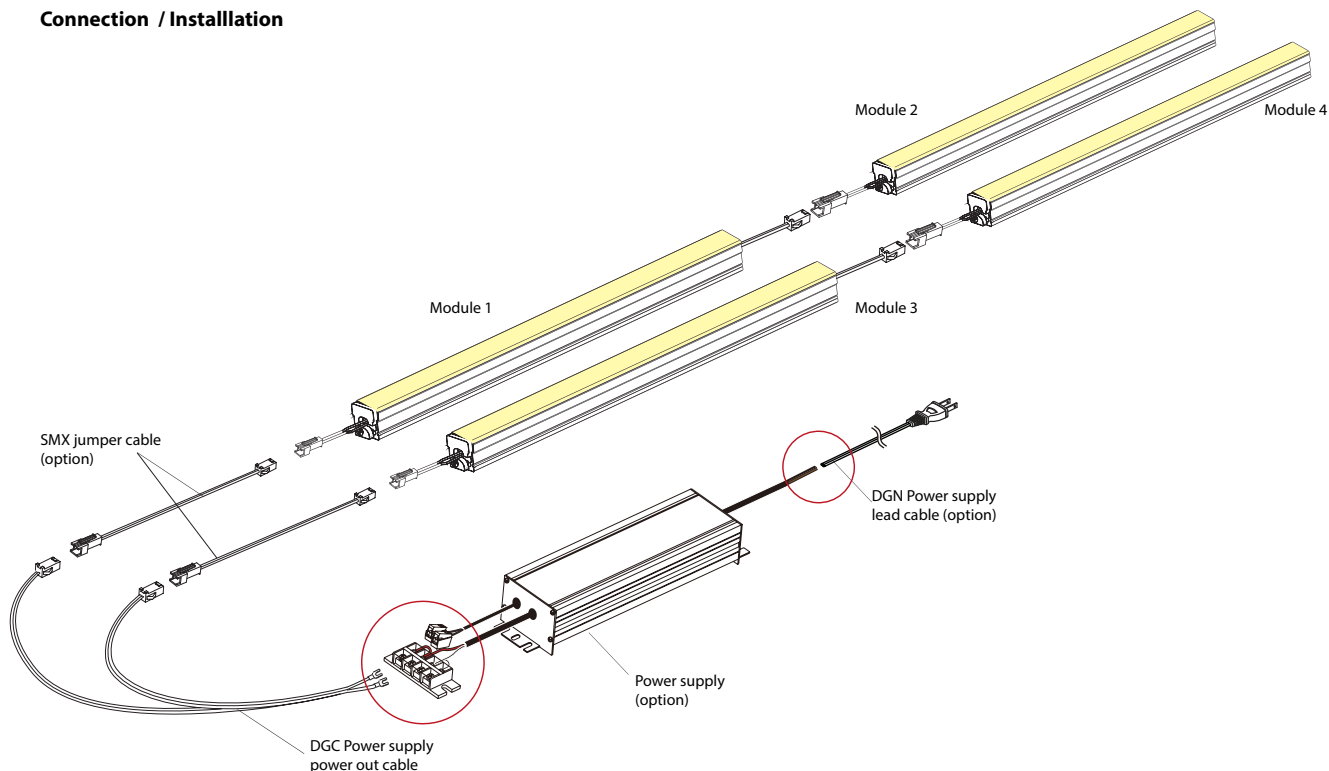
| Standard Ra ≥ 80 | | | | High color rendering Ra ≥ 95 | | | |
|------------------|-------------|-------------|--------------------|------------------------------|-------------|-------------|--------------------|
| Length (mm) | Watts (W) | Amps (A) | Luminous flux (lm) | Length (mm) | Watts (W) | Amps (A) | Luminous flux (lm) |
| 1275 | 19.8 | 0.83 | 1520 | 1275 | 20.3 | 0.85 | 1208 |
| 1302.5 | 20.2 | 0.85 | 1553 | 1302.5 | 20.7 | 0.86 | 1234 |
| 1330 | 20.6 | 0.86 | 1586 | 1330 | 21.2 | 0.88 | 1260 |
| 1357.5 | 21.1 | 0.88 | 1619 | 1357.5 | 21.6 | 0.90 | 1286 |
| 1385 | 21.5 | 0.90 | 1653 | 1385 | 22.0 | 0.92 | 1313 |
| 1412.5 | 21.9 | 0.92 | 1686 | 1412.5 | 22.5 | 0.94 | 1339 |
| 1440 | 22.4 | 0.94 | 1719 | 1440 | 22.9 | 0.95 | 1365 |
| 1467.5 | 22.8 | 0.95 | 1752 | 1467.5 | 23.3 | 0.97 | 1391 |
| 1495 | 23.2 | 0.97 | 1785 | 1495 | 23.8 | 0.99 | 1418 |
| 1522.5 | 23.7 | 0.99 | 1818 | 1522.5 | 24.2 | 1.01 | 1444 |
| 1550 | 24.1 | 1.01 | 1851 | 1550 | 24.6 | 1.03 | 1470 |
| 1577.5 | 24.5 | 1.03 | 1884 | 1577.5 | 25.1 | 1.04 | 1496 |
| 1605 | 24.9 | 1.04 | 1917 | 1605 | 25.5 | 1.06 | 1523 |
| 1632.5 | 25.4 | 1.06 | 1950 | 1632.5 | 25.9 | 1.08 | 1549 |
| 1660 | 25.8 | 1.08 | 1983 | 1660 | 26.4 | 1.10 | 1575 |
| 1687.5 | 26.2 | 1.10 | 2016 | 1687.5 | 26.8 | 1.12 | 1601 |
| 1715 | 26.7 | 1.12 | 2049 | 1715 | 27.2 | 1.13 | 1628 |
| 1742.5 | 27.1 | 1.13 | 2082 | 1742.5 | 27.7 | 1.15 | 1654 |
| 1770 | 27.5 | 1.15 | 2115 | 1770 | 28.1 | 1.17 | 1680 |
| 1797.5 | 28.0 | 1.17 | 2148 | 1797.5 | 28.5 | 1.19 | 1706 |
| 1825 | 28.4 | 1.19 | 2181 | 1825 | 29.0 | 1.21 | 1733 |
| 1852.5 | 28.8 | 1.21 | 2214 | 1852.5 | 29.4 | 1.23 | 1759 |
| 1880 | 29.2 | 1.22 | 2247 | 1880 | 29.4 | 1.24 | 1785 |
| 1907.5 | 29.7 | 1.24 | 2280 | 1907.5 | 29.8 | 1.26 | 1811 |
| 1935 | 30.1 | 1.26 | 2314 | 1935 | 30.3 | 1.28 | 1838 |
| 1962.5 | 30.5 | 1.28 | 2347 | 1962.5 | 30.7 | 1.30 | 1864 |
| 1990 | 31.0 | 1.30 | 2380 | 1990 | 31.1 | 1.32 | 1890 |
| 2017.5 | 31.4 | 1.31 | 2413 | 2017.5 | 31.6 | 1.33 | 1916 |
| 2045 | 31.8 | 1.33 | 2446 | 2045 | 32.0 | 1.35 | 1943 |
| 2072.5 | 32.3 | 1.35 | 2479 | 2072.5 | 32.4 | 1.37 | 1969 |
| 2100 | 32.7 | 1.37 | 2512 | 2100 | 32.9 | 1.39 | 1995 |
| 2127.5 | 33.1 | 1.39 | 2545 | 2127.5 | 33.3 | 1.41 | 2021 |
| 2155 | 33.5 | 1.40 | 2578 | 2155 | 33.7 | 1.42 | 2048 |
| 2182.5 | 34.0 | 1.42 | 2611 | 2182.5 | 34.2 | 1.44 | 2074 |
| 2210 | 34.4 | 1.44 | 2644 | 2210 | 34.6 | 1.46 | 2100 |
| 2237.5 | 34.8 | 1.46 | 2677 | 2237.5 | 35.0 | 1.48 | 2126 |
| 2265 | 35.3 | 1.48 | 2710 | 2265 | 35.5 | 1.50 | 2153 |
| 2292.5 | 35.7 | 1.49 | 2743 | 2292.5 | 35.9 | 1.51 | 2179 |
| 2320 | 36.1 | 1.51 | 2776 | 2320 | 36.3 | 1.53 | 2205 |
| 2347.5 | 36.6 | 1.53 | 2809 | 2347.5 | 36.8 | 1.55 | 2231 |
| 2375 | 37.0 | 1.55 | 2842 | 2375 | 37.2 | 1.57 | 2258 |
| 2402.5 | 37.4 | 1.57 | 2875 | 2402.5 | 37.7 | 1.59 | 2284 |
| 2430 | 37.8 | 1.58 | 2908 | 2430 | 38.1 | 1.60 | 2310 |
| 2457.5 | 38.3 | 1.60 | 2941 | 2457.5 | 38.5 | 1.62 | 2336 |
| 2485 | 38.7 | 1.62 | 2975 | 2485 | 39.0 | 1.64 | 2363 |

Light output grade (base N color in % of lm) according to color rendering

| | D 6500K | DN 5700K | N 5000 K | NW 4500 K | W 4000K | WW 3500 K | L30 3000 K | L27 2700 K | L25 2500K | L22 2200K |
|---------|------------|-------------|-------------|--------------|------------|--------------|---------------|---------------|--------------|--------------|
| Ra ≥ 80 | 97% | 99% | 100% | 99% | 97% | 93% | 93% | 90% | 77% | - |
| Ra ≥ 95 | 100% | 100% | 100% | 100% | 100% | 100% | 95% | 90% | 82% | 70% |

Line Module installation and option parts

Connection / Installation

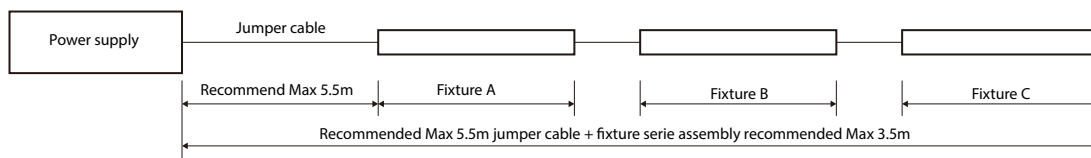


Assembly and maximum length

When connecting or assembling LED modules in series, please respect the following recommendation:

Maximum jumper cable length 5.5m

Maximum LED module length in series 3.5m (3465mm)



Option parts

Jumper cable SMX



| | | | | | | | |
|---------|--------|-------|-------|----------|---------|-------|--------|
| SMX-80 | 80 mm | 1 pcs | 500 ¥ | SMX-500 | 500 mm | 1 pcs | 600 ¥ |
| SMX-200 | 200 mm | 1 pcs | 500 ¥ | SMX-1000 | 1000 mm | 1 pcs | 600 ¥ |
| SMX-300 | 300 mm | 1 pcs | 500 ¥ | SMX-2000 | 2000 mm | 1 pcs | 1200 ¥ |
| SMX-400 | 400 mm | 1 pcs | 600 ¥ | SMX-3000 | 3000 mm | 1 pcs | 1800 ¥ |
| | | | | SMX-4000 | 4000 mm | 1 pcs | 2400 ¥ |

Power supply out cable DGC



| | | | |
|-------|-------|--------------|--------|
| DGC-1 | 500mm | 1 connector | 700 ¥ |
| DGC-2 | 500mm | 2 connectors | 900 ¥ |
| DGC-3 | 500mm | 3 connectors | 1100 ¥ |
| DGC-4 | 500mm | 4 connectors | 1300 ¥ |

Power supply in lead cable DGN



| | | | |
|----------|--------|-------|--------|
| DGN-2500 | 2500mm | 1 pcs | 1350 ¥ |
|----------|--------|-------|--------|

Power supply unit (OSRAM OT)



| | | | |
|--------------------|------|-------|------------|
| OT30/100-200-24-T | 30W | 1 pcs | Open price |
| OT60/100-200-24-T | 60W | 1 pcs | Open price |
| OT90/100-200-24-T | 90W | 1 pcs | Open price |
| OT150/100-200-24-T | 150W | 1 pcs | Open price |

Input AC90~240V, output DC24V.
Comply with CE, UL, PSE standards. IP 66 water proof rating.

DC 24V dimmer FMC-24S/R

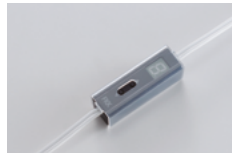


| | | |
|-----------|-------|---------|
| FMC-24S/R | 1 pcs | 34500 ¥ |
|-----------|-------|---------|

Available in 3 colors:



DC 24V simple dimmer FSD-24



| | | |
|--------|-------|--------|
| FSD-24 | 1 pcs | 9900 ¥ |
|--------|-------|--------|