
LINEARlight POWER Flex

Flexible LED modules for professional and industrial applications



Areas of application

- Cove lighting
- Signage
- Advertising and lettering

Product benefits

- High luminous flux
- Great design freedom thanks to flexibility and cuttability of module
- Simple mounting and connection
- Toolless connection with the optional CONNECTsystem
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Product features

- Flexible and cuttable LED strip
- Luminous flux: up to 1,850 lm/m
- Module efficacy: up to 82 lm/W
- Dimmable
- Fine White (3 SDCM)



Product family datasheet

Technical data

Electrical data

| Product description | Nominal voltage | Nominal current | Rated wattage | Reverse Voltage | Type of current |
|---------------------|-----------------|-----------------|---------------|-----------------|-----------------|
| LF06P2 -W5F-827 | 24.0 V | 2.8 A | 68.00 W | 25 V | DC |
| LF06P2 -W5F-830 | 24.0 V | 2.8 A | 68.00 W | 25 V | DC |
| LF06P2 -W5F-840 | 24.0 V | 2.8 A | 68.00 W | 25 V | DC |
| LF06P2 -W5F-850 | 24.0 V | 2.8 A | 68.00 W | 25 V | DC |
| LF06P2 -W5F-865 | 24.0 V | 2.8 A | 68.00 W | 25 V | DC |

| Product description | Input voltage range |
|---------------------|---------------------|
| LF06P2 -W5F-827 | 23...25 V |
| LF06P2 -W5F-830 | 23...25 V |
| LF06P2 -W5F-840 | 23...25 V |
| LF06P2 -W5F-850 | 23...25 V |
| LF06P2 -W5F-865 | 23...25 V |

Photometrical data

| Product description | Color temperature | Color rendering index Ra | Light color (designation) | Light color LED | Luminous flux per meter | Luminous flux |
|---------------------|-------------------|--------------------------|---------------------------|-----------------|-------------------------|---------------|
| LF06P2 -W5F-827 | 2700 K | >80 | Warm White | White | 1600 lm | 4792 lm |
| LF06P2 -W5F-830 | 3000 K | >80 | Warm White | White | 1720 lm | 5168 lm |
| LF06P2 -W5F-840 | 4000 K | >80 | Cool White | White | 1850 lm | 5544 lm |
| LF06P2 -W5F-850 | 5000 K | >80 | Cool White | White | 1850 lm | 5544 lm |
| LF06P2 -W5F-865 | 6500 K | >80 | Daylight | White | 1850 lm | 5544 lm |

| Product description | Luminous efficacy |
|---------------------|-------------------|
| LF06P2 -W5F-827 | 70 lm/W |
| LF06P2 -W5F-830 | 76 lm/W |
| LF06P2 -W5F-840 | 82 lm/W |
| LF06P2 -W5F-850 | 82 lm/W |
| LF06P2 -W5F-865 | 82 lm/W |

Product family datasheet

Light technical data

| Product description | Beam angle |
|---------------------|------------|
| LF06P2 -W5F-827 | 120 ° |
| LF06P2 -W5F-830 | 120 ° |
| LF06P2 -W5F-840 | 120 ° |
| LF06P2 -W5F-850 | 120 ° |
| LF06P2 -W5F-865 | 120 ° |

LED module information

| Product description | Number of LEDs per module | Number of LEDs per meter |
|---------------------|---------------------------|--------------------------|
| LF06P2 -W5F-827 | 120 | 40 |
| LF06P2 -W5F-830 | 120 | 40 |
| LF06P2 -W5F-840 | 120 | 40 |
| LF06P2 -W5F-850 | 120 | 40 |
| LF06P2 -W5F-865 | 120 | 40 |

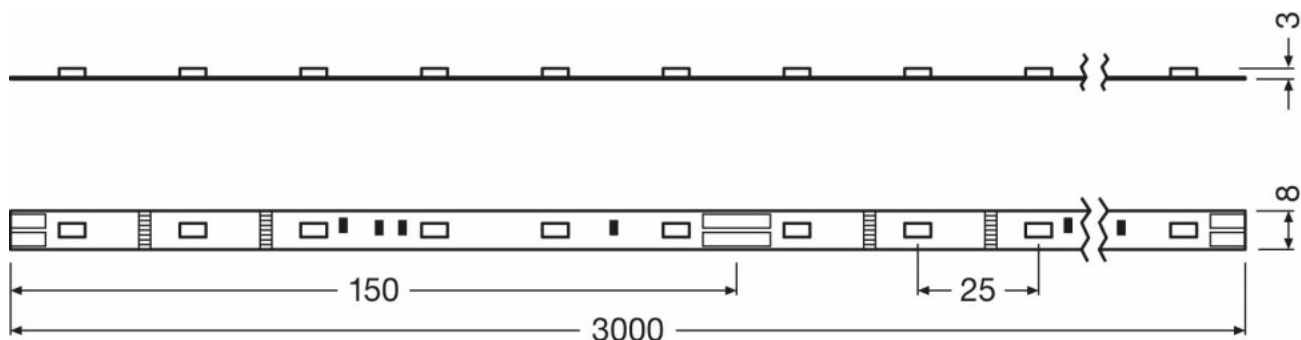
Dimensions & weight

| Product description | Length | Length – smallest unit | Width | Height | Product weight |
|---------------------|-----------------------|------------------------|--------|--------|----------------|
| LF06P2 -W5F-827 | 3000 mm ¹⁾ | 150.0 mm | 8.0 mm | 2.5 mm | 31.00 g |
| LF06P2 -W5F-830 | 3000 mm ¹⁾ | 150.0 mm | 8.0 mm | 2.5 mm | 31.00 g |
| LF06P2 -W5F-840 | 3000 mm ¹⁾ | 150.0 mm | 8.0 mm | 2.5 mm | 31.00 g |
| LF06P2 -W5F-850 | 3000 mm ¹⁾ | 150.0 mm | 8.0 mm | 2.5 mm | 31.00 g |
| LF06P2 -W5F-865 | 3000 mm ¹⁾ | 150.0 mm | 8.0 mm | 2.5 mm | 31.00 g |

¹⁾ LED pitch 25 mm

Product family datasheet

Product line drawing



LF06P2 -W5F-827, LF06P2 -W5F-830, LF06P2 -W5F-840, LF06P2 -W5F-850, LF06P2 -W5F-865

Temperatures

| Product description | Temperature range in operation | Temperature range at storage |
|---------------------|--------------------------------|------------------------------|
| LF06P2 -W5F-827 | -20...75 °C ¹⁾ | -20...80 °C |
| LF06P2 -W5F-830 | -20...75 °C ¹⁾ | -20...80 °C |
| LF06P2 -W5F-840 | -20...75 °C ¹⁾ | -20...80 °C |
| LF06P2 -W5F-850 | -20...75 °C ¹⁾ | -20...80 °C |
| LF06P2 -W5F-865 | -20...75 °C ¹⁾ | -20...80 °C |

¹⁾ At the T_c point

Lifespan

| Product description | Lifespan |
|---------------------|-----------------------|
| LF06P2 -W5F-827 | 50000 h ¹⁾ |
| LF06P2 -W5F-830 | 50000 h ¹⁾ |
| LF06P2 -W5F-840 | 50000 h ¹⁾ |
| LF06P2 -W5F-850 | 50000 h ¹⁾ |
| LF06P2 -W5F-865 | 50000 h ¹⁾ |

¹⁾ At T_a < 40 °C

Product family datasheet

Capabilities

| Product description | Dimmable |
|---------------------|----------|
| LF06P2 -W5F-827 | Yes |
| LF06P2 -W5F-830 | Yes |
| LF06P2 -W5F-840 | Yes |
| LF06P2 -W5F-850 | Yes |
| LF06P2 -W5F-865 | Yes |

Certificates & standards

| Product description | Energy consumption | Energy efficiency class |
|---------------------|--------------------|-------------------------|
| LF06P2 -W5F-827 | 4 kWh/1000h | A+ ¹⁾ |
| LF06P2 -W5F-830 | 4 kWh/1000h | A+ ¹⁾ |
| LF06P2 -W5F-840 | 4 kWh/1000h | A+ ¹⁾ |
| LF06P2 -W5F-850 | 4 kWh/1000h | A+ ¹⁾ |
| LF06P2 -W5F-865 | 4 kWh/1000h | A+ ¹⁾ |

| Product description | Standards |
|---------------------|----------------|
| LF06P2 -W5F-827 | CE/UL/ENEC/VDE |
| LF06P2 -W5F-830 | CE/UL/ENEC/VDE |
| LF06P2 -W5F-840 | CE/UL/ENEC/VDE |
| LF06P2 -W5F-850 | CE/UL/ENEC/VDE |
| LF06P2 -W5F-865 | CE/UL/ENEC/VDE |

¹⁾ Applicable on smallest operable unit

Logistical data

| Product description | Temperature range at storage |
|---------------------|------------------------------|
| LF06P2 -W5F-827 | -20...80 °C |
| LF06P2 -W5F-830 | -20...80 °C |
| LF06P2 -W5F-840 | -20...80 °C |
| LF06P2 -W5F-850 | -20...80 °C |
| LF06P2 -W5F-865 | -20...80 °C |

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Perfectly matched to OPTOTRONIC 24 V electronic control gears

Product family datasheet

Application advice

For more detailed application information and graphics please see product datasheet.












Sales and Technical Support

Sales and Technical Support www.osram.com

Country specific information

| Product description | Product code | METEL-Code | SEG number | STK number | UK Org |
|---------------------|---------------|------------|------------|------------|--------|
| LF06P2-W5F-827 | 4008321971272 | - | 7500177 | 4030058 | - |
| LF06P2-W5F-830 | 4008321971296 | - | 7500178 | 4030059 | - |
| LF06P2-W5F-840 | 4008321971319 | - | 7500179 | 4030060 | - |
| LF06P2-W5F-850 | 4008321971791 | - | 7500180 | 4030061 | - |
| LF06P2-W5F-865 | 4008321971333 | - | 7500181 | 4030062 | - |

Download Data

| File | |
|---|--|
|  | Addon Technical Information BinningSheet - LF06P2 |
|  | Product Datasheet LF06P2 Datenblatt |
|  | Product Datasheet LF06P2 data sheet |
|  | Brochures FLEXIBLE LED MODULES |
|  | Brochures Light is freedom of design (GB) |
|  | Declarations of conformity EC-DoC LF06P2-W5F-8xx-LINEARlight Power |
|  | Declarations of conformity Man-DoC LF06P2-W5F-8xx-LINEARlight Power |
|  | Eulumdat LINEARLIGHT POWER FLEX LF06P2-W5F-827 |
|  | Product movie Spots LINEARlight Flex Quality long QTh264 3500kbit 1024x576 (E) |
|  | Product movie Spots LINEARlight Flex Quality short QTh264 3500kbit 1024x576 (E) |
|  | Eulumdat LINEARLIGHT POWER FLEX LF06P2-W5F-830 |

Product family datasheet



Eulumdat
LINEARLIGHT POWER FLEX LF06P2-W5F-840



Eulumdat
LINEARLIGHT POWER FLEX LF06P2-W5F-854



Eulumdat
LINEARLIGHT POWER FLEX LF06P2-W5F-865

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|---------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4008321971272 | LF06P2 -W5F-827 | Shipping carton box 8 | 241 mm x 171 mm x 205 mm | 8.45 dm ³ | 1159.20 g |
| 4008321971296 | LF06P2 -W5F-830 | Shipping carton box 8 | 241 mm x 195 mm x 205 mm | 9.63 dm ³ | 1417.00 g |
| 4008321971319 | LF06P2 -W5F-840 | Shipping carton box 8 | 241 mm x 195 mm x 205 mm | 9.63 dm ³ | 1417.00 g |
| 4008321971791 | LF06P2 -W5F-850 | Shipping carton box 8 | 241 mm x 195 mm x 205 mm | 9.63 dm ³ | 1417.00 g |
| 4008321971333 | LF06P2 -W5F-865 | Shipping carton box 8 | 241 mm x 195 mm x 205 mm | 9.63 dm ³ | 1417.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.