

LINEARlight POWER Flex

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	Input voltage range
LF06P2 -W5F-824	24.0 V	2.3 A	54.60 W	25 V	DC	23...25 V
LF06P2 -W5F-827	24.0 V	2.8 A	68.00 W	25 V	DC	23...25 V
LF06P2 -W5F-830	24.0 V	2.8 A	68.00 W	25 V	DC	23...25 V
LF06P2 -W5F-840	24.0 V	2.8 A	68.00 W	25 V	DC	23...25 V
LF06P2 -W5F-850	24.0 V	2.8 A	68.00 W	25 V	DC	23...25 V
LF06P2 -W5F-865	24.0 V	2.8 A	68.00 W	25 V	DC	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-824	2400 K	>80				
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-824	
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

Light technical data

Product description	Beam angle
LF06P2 -W5F-824	120 °
LF06P2 -W5F-827	120 °
LF06P2 -W5F-830	120 °
LF06P2 -W5F-840	120 °
LF06P2 -W5F-850	120 °
LF06P2 -W5F-865	120 °

Product family datasheet

LED module information

Product description	Number of LEDs per module	Number of LEDs per meter
LF06P2 -W5F-824	120	40
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

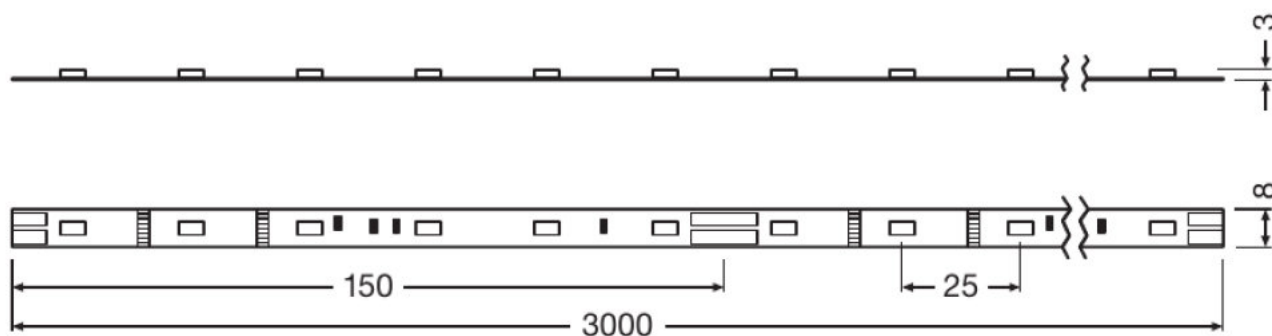
Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Product weight
LF06P2 -W5F-824	3000 mm ¹⁾	150.0 mm	10.0 mm	2.5 mm	31.00 g
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-824, LF06P2 -W5F-827, LF06P2 -W5F-830, LF06P2 -W5F-840, LF06P2 -W5F-850, LF06P2 -W5F-865

Temperatures & operating conditions

Product description	Temperature range in operation
LF06P2 -W5F-824	-20...75 °C ¹⁾
LF06P2 -W5F-827	-20...75 °C ¹⁾
LF06P2 -W5F-830	-20...75 °C ¹⁾
LF06P2 -W5F-840	-20...75 °C ¹⁾
LF06P2 -W5F-850	-20...75 °C ¹⁾
LF06P2 -W5F-865	-20...75 °C ¹⁾

¹⁾ At the T_c point

Product family datasheet

Lifespan

Product description	Lifespan
LF06P2 -W5F-824	50000 h ¹⁾
LF06P2 -W5F-827	50000 h ²⁾
LF06P2 -W5F-830	50000 h ²⁾
LF06P2 -W5F-840	50000 h ²⁾
LF06P2 -W5F-850	50000 h ²⁾
LF06P2 -W5F-865	50000 h ²⁾

¹⁾ L70/B50 at T_c 40 °C

²⁾ At T_a < 40 °C

Capabilities

Product description	Dimmable
LF06P2 -W5F-824	
LF06P2 -W5F-827	Yes
LF06P2 -W5F-830	Yes
LF06P2 -W5F-840	Yes
LF06P2 -W5F-850	Yes
LF06P2 -W5F-865	Yes

Certificates & standards

Product description	Standards	Energy consumption
LF06P2 -W5F-824	CE/UL/ENEC/VDE	
LF06P2 -W5F-827	CE/UL/ENEC/VDE	4 kWh/1000h
LF06P2 -W5F-830	CE/UL/ENEC/VDE	4 kWh/1000h
LF06P2 -W5F-840	CE/UL/ENEC/VDE	4 kWh/1000h
LF06P2 -W5F-850	CE/UL/ENEC/VDE	4 kWh/1000h
LF06P2 -W5F-865	CE/UL/ENEC/VDE	4 kWh/1000h

Product description	Energy efficiency class
LF06P2 -W5F-824	
LF06P2 -W5F-827	A+
LF06P2 -W5F-830	A+
LF06P2 -W5F-840	A+
LF06P2 -W5F-850	A+
LF06P2 -W5F-865	A+

Product family datasheet

Logistical data

Product description	Temperature range at storage
LF06P2 -W5F-824	-20...80 °C
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

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-No.	STK number	UK Org
LF06P2 -W5F-827	4008321971272	-	-	4030058	-
LF06P2 -W5F-830	4008321971296	-	-	4030059	-
LF06P2 -W5F-840	4008321971319	-	-	4030060	-
LF06P2 -W5F-850	4008321971791	-	-	4030061	-
LF06P2 -W5F-865	4008321971333	-	-	4030062	-

Download Data

File	
	Product Family Datasheet 707500_Technical Datasheet LF06P2
	Brochures Light is freedom of design (EN)

Product family datasheet

	Certificates EAC Certificate
	Certificates VDE-ENEC Certificate
	Certificates UL Certificate
	Declarations of conformity Declaration of conformity
	Declarations of conformity Manufacturer declaration
	Addon Technical Information 685717_BinningSheet - LF06P2
	Brochures 683082_Light is FLEXible - Book of inspiration (GB)
	Eulumdat 346255_LINEARLIGHT POWER FLEX LF06P2-W5F-827
	Eulumdat 346254_LINEARLIGHT POWER FLEX LF06P2-W5F-830
	Eulumdat 346253_LINEARLIGHT POWER FLEX LF06P2-W5F-840
	Eulumdat 346251_LINEARLIGHT POWER FLEX LF06P2-W5F-854
	Eulumdat 346252_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
4052899942769	LF06P2 -W5F-824	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1421.00 g
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.

Product family datasheet

Accessories Optional

Product description	Accessory name	Accessory code
LF06P2 -W5F-827	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W5F-830	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W5F-840	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W5F-850	LINEARlight FLEX, -2100	▶ 4008321978998
LF06P2 -W5F-865	LINEARlight FLEX, -2100	▶ 4008321978998

Disclaimer

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