

## TEC Flex Protect 300

LED modules for semi-professional applications



### Areas of application

- For use in architectural, shop and interior luminaires
- Offices, corridors and residential interiors
- Architectural Integration – e.g. coves, walls
- Wet or damp areas

### Product family benefits

- Pre-wired LED strip, simple and quick plug-and-play installation
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Type of protection: IP66
- Dimmable (with suitable PWM dimming methods)

### Product family features

- Flexible and cuttable LED strip
- Luminous flux: up to 300 lm/m
- Available with color temperature: 2,700K, 3,000 K, 4,000 K, 5,000 K or 6,500 K
- Up to 50,000 hrs lifetime @ tc max
- Recommended in system use with OPTOTRONIC
- Color consistency in 3 SDCM



## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Type of current	Nominal wattage per meter	Rated wattage	Input voltage range	Accidental reverse input voltage protection up to
TFP300-G1 -827-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TFP300-G1 -830-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TFP300-G1 -840-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TFP300-G1 -850-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TFP300-G1 -865-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V

#### Photometrical data

Product description	Light color LED	Color rendering index Ra	Luminous flux per meter	Total useful luminous flux	Standard deviation of color matching	Light color (designation)
TFP300-G1 -827-05	White	80	340 lm	1700 lm	≤3 sdc	White
TFP300-G1 -830-05	White	80	350 lm	1750 lm	≤3 sdc	White
TFP300-G1 -840-05	White	80	360 lm	1800 lm	≤3 sdc	White
TFP300-G1 -850-05	White	80	370 lm	1850 lm	≤3 sdc	White
TFP300-G1 -865-05	White	80	360 lm	1800 lm	≤3 sdc	White

#### Light technical data

Product description	LED pitch	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
TFP300-G1 -827-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TFP300-G1 -830-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TFP300-G1 -840-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TFP300-G1 -850-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TFP300-G1 -865-05	14.29 mm	120.00 °	< 0.5 s	0.00 s

## Product family datasheet

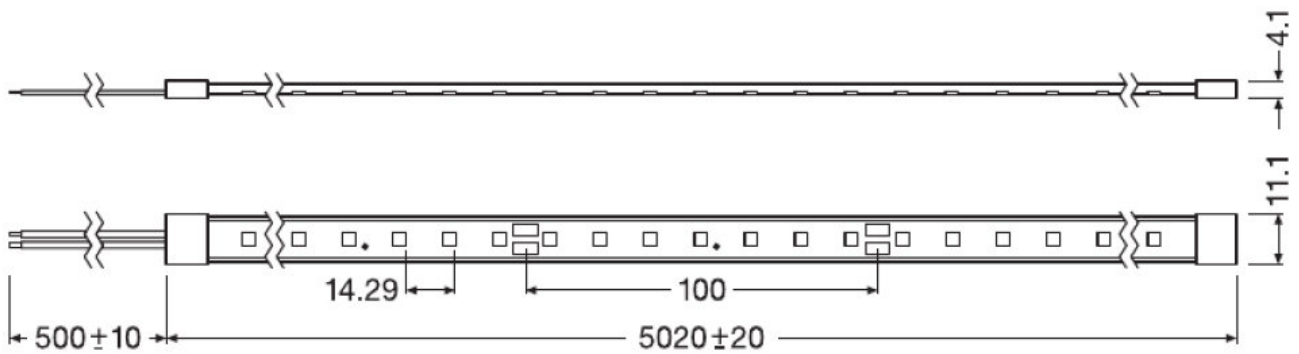
### LED module information

Product description	Number of LEDs per meter	Number of LEDs per smallest unit
TFP300-G1 -827-05	70	7
TFP300-G1 -830-05	70	7
TFP300-G1 -840-05	70	7
TFP300-G1 -850-05	70	7
TFP300-G1 -865-05	70	7

### Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Product weight
TFP300-G1 -827-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP300-G1 -830-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP300-G1 -840-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP300-G1 -850-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP300-G1 -865-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g

### Product line drawing



TFP300-G1 -827-05, TFP300-G1 -830-05, TFP300-G1 -840-05, TFP300-G1 -850-05, TFP300-G1 -865-05

## Product family datasheet

### Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Temperature range in operation at Tc point	Ambient temperature range	Temperature range at storage
TFP300-G1 -827-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP300-G1 -830-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP300-G1 -840-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP300-G1 -850-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP300-G1 -865-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C

### Lifespan

Product description	Rated lamp life time	Nominal lamp life time	Lumen main. fact. at end of nom. life time	Number of switching cycles
TFP300-G1 -827-05	50000 h	50000 h	0.70	30000
TFP300-G1 -830-05	50000 h	50000 h	0.70	30000
TFP300-G1 -840-05	50000 h	50000 h	0.70	30000
TFP300-G1 -850-05	50000 h	50000 h	0.70	30000
TFP300-G1 -865-05	50000 h	50000 h	0.70	30000

### Capabilities

Product description	Dimmable	Lowest bending radius	Self-adhesive
TFP300-G1 -827-05	Yes	20 mm	Yes
TFP300-G1 -830-05	Yes	20 mm	Yes
TFP300-G1 -840-05	Yes	20 mm	Yes
TFP300-G1 -850-05	Yes	20 mm	Yes
TFP300-G1 -865-05	Yes	20 mm	Yes

Product description	With connection set	With end piece
TFP300-G1 -827-05	No	Yes
TFP300-G1 -830-05	No	Yes
TFP300-G1 -840-05	No	Yes
TFP300-G1 -850-05	No	Yes
TFP300-G1 -865-05	No	Yes

## Product family datasheet

### Certificates & standards

Product description	Energy efficiency class	Energy consumption	Standards	Type of protection
TFP300-G1 -827-05	A++	16 kWh/1000h	CE/ENEC/EAC	IP66
TFP300-G1 -830-05	A++	16 kWh/1000h	CE/ENEC/EAC	IP66
TFP300-G1 -840-05	A++	16 kWh/1000h	CE/ENEC/EAC	IP66
TFP300-G1 -850-05	A++	16 kWh/1000h	CE/ENEC/EAC	IP66
TFP300-G1 -865-05	A++	16 kWh/1000h	CE/ENEC/EAC	IP66

### Logistical data

Product description	Commodity code
TFP300-G1 -827-05	940540399000
TFP300-G1 -830-05	940540399000
TFP300-G1 -840-05	940540399000
TFP300-G1 -850-05	940540399000
TFP300-G1 -865-05	940540399000

### Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE




### Application advice

For more detailed application information and graphics please see product datasheet.  
Attention: Only compatible for devices up to ANDROID 9

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

File
 User instruction TEC Flex IP66
 Certificates TFX ENEC 130520
 Declarations of conformity TECFlex CE 4210017 300420

## Product family datasheet



CAD data  
DWG TEC Flex and TEC Flex Shortpitch

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172106627	TFP300-G1 -827-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm <sup>3</sup>	3664.00 g
4062172106641	TFP300-G1 -830-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm <sup>3</sup>	3664.00 g
4062172106665	TFP300-G1 -840-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm <sup>3</sup>	3664.00 g
4062172106689	TFP300-G1 -850-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm <sup>3</sup>	3664.00 g
4062172106702	TFP300-G1 -865-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm <sup>3</sup>	3664.00 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.

### Accessories Optional

Product description	Accessory name	Accessory code
TFP300-G1 -827-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP300-G1 -827-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -827-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP300-G1 -830-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP300-G1 -830-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -830-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP300-G1 -840-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP300-G1 -840-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -840-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP300-G1 -850-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP300-G1 -850-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -850-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP300-G1 -865-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP300-G1 -865-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -865-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853

## Product family datasheet

---

### Disclaimer

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