

TEC Flex Protect 300

LED modules for semi-professional applications

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 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)

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 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		< 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

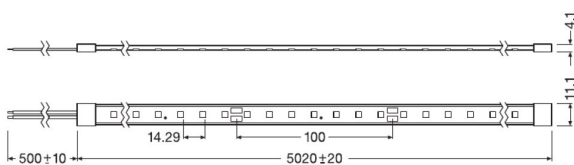
LED module information

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

Additional product data

Product description	Predecessor EAN	ID of contained light source [GMS]
TFP300-G1 -827-05	4052899528031, 4052899528116	LS_SHZ_600315
TFP300-G1 -830-05	4052899528055, 4052899528130	LS_SHZ_600316
TFP300-G1 -840-05	4052899528079, 4052899528154	LS_SHZ_600317
TFP300-G1 -850-05		LS_SHZ_600318
TFP300-G1 -865-05	4052899528093, 4052899528178	LS_SHZ_600319

Capabilities

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

Product family datasheet

Certificates & standards

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

Logistical data

Product description	Commodity code
TFP300-G1 -827-05	853951000000
TFP300-G1 -830-05	853951000000
TFP300-G1 -840-05	853951000000
TFP300-G1 -850-05	853951000000
TFP300-G1 -865-05	853951000000

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
TFP300-G1 -827-05	13-05-2022	4062172106627	No declarable substances contained
TFP300-G1 -830-05	13-05-2022	4062172106641	No declarable substances contained
TFP300-G1 -840-05	13-05-2022	4062172106665	No declarable substances contained
TFP300-G1 -850-05	13-05-2022	4062172106689	No declarable substances contained
TFP300-G1 -865-05	13-05-2022	4062172106702	No declarable substances contained

Product description	Declaration No. in SCIP database
TFP300-G1 -827-05	No declarable substances contained
TFP300-G1 -830-05	No declarable substances contained
TFP300-G1 -840-05	No declarable substances contained
TFP300-G1 -850-05	No declarable substances contained
TFP300-G1 -865-05	No declarable substances contained

Product family datasheet

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.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction TEC Flex IP66
	Product Datasheet TEC Flex IP66 Product Datasheet (EN)
	Brochures Light is strong - Discover the versatile and flexible lighting system OSRAM 24V TEC Flex (EN)
	Certificates TFX ENEC 130520
	Declarations of conformity TECFlex CE 4210017 300420
	CAD data DWG TEC Flex and TEC Flex Shortpitch
	Eulumdat EULUMDAT TEC Flex Protect
	Eulumdat TFP300-G1-827 LTD 130122
	IES data TFP300-G1-827 IES 130122
	Eulumdat TFP300-G1-830 LTD 130122
	IES data TFP300-G1-830 IES 130122
	Eulumdat TFP300-G1-840 LTD 130122
	IES data TFP300-G1-840 IES 130122

Product family datasheet

	Eulumdat TFP300-G1-850 LTD 130122
	IES data TFP300-G1-850 IES 130122
	Eulumdat TFP300-G1-865 LTD 130122
	IES data TFP300-G1-865 IES 130122

Ecodesign regulation information:

- This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.
- Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.
- In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer. In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.
- Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer. Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

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 ³	3664.00 g
4062172106641	TFP300-G1 -830-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106665	TFP300-G1 -840-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106689	TFP300-G1 -850-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106702	TFP300-G1 -865-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g

Product family datasheet

Logistical Data

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	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP300-G1 -827-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP300-G1 -827-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP300-G1 -827-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP300-G1 -827-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP300-G1 -827-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP300-G1 -827-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP300-G1 -827-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP300-G1 -827-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP300-G1 -827-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP300-G1 -827-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP300-G1 -827-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
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 -827-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP300-G1 -827-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP300-G1 -830-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP300-G1 -830-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP300-G1 -830-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP300-G1 -830-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP300-G1 -830-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP300-G1 -830-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP300-G1 -830-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP300-G1 -830-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP300-G1 -830-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP300-G1 -830-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP300-G1 -830-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP300-G1 -830-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
TFP300-G1 -830-05	FX -SC08-G2-CT4PJ	▶ 4052899464858

Product family datasheet

TFP300-G1 -830-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -830-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP300-G1 -830-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP300-G1 -830-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP300-G1 -840-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP300-G1 -840-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP300-G1 -840-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP300-G1 -840-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP300-G1 -840-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP300-G1 -840-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP300-G1 -840-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP300-G1 -840-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP300-G1 -840-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP300-G1 -840-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP300-G1 -840-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP300-G1 -840-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
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 -840-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP300-G1 -840-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP300-G1 -850-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP300-G1 -850-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP300-G1 -850-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP300-G1 -850-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP300-G1 -850-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP300-G1 -850-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP300-G1 -850-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP300-G1 -850-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP300-G1 -850-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP300-G1 -850-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP300-G1 -850-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP300-G1 -850-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
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 -850-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP300-G1 -850-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046

Product family datasheet

TFP300-G1 -865-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP300-G1 -865-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP300-G1 -865-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP300-G1 -865-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP300-G1 -865-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP300-G1 -865-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP300-G1 -865-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP300-G1 -865-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP300-G1 -865-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP300-G1 -865-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP300-G1 -865-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP300-G1 -865-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
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
TFP300-G1 -865-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP300-G1 -865-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046

Disclaimer

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