

OPTOTRONIC FIT 12V P

Constant Voltage – Non dimmable



Areas of application

- Signage lighting, channel letter lighting, luminous ceilings, etc...
- Suitable for indoor and outdoor SELV equivalent installations

Product family benefits

- Small housing design
- Versatile scope of application due to output power range of up to 300 W
- Robust and durable design for outdoor application



Product family datasheet

Product family features

- Suitable for Class I/II luminaires
- SELV, Vout: 12.5 V
- Wide ta range -40 °C...+70 °C
- Driver with output power range of up to 300 W
- High efficiency up to 91 %
- Smart Power Supply
- THD <5 % at full load
- High IP protection (IP66 / IP67)
- High surge protection: up to 6 kV (L-N) / 6 kV (L/N-PE)
- High surge protection: up to 6 kV (L-N) / 10 kV (L/N-PE) (IN version)
- Short-circuit, overload and overtemperature protection
- Lifetime: up to 50,000 h (temperature at $T_c = 80\text{ °C}$, max. 10 % failure rate)
- Mains voltage: 220 – 240 VAC
- IN version only for India

Technical data

Electrical data

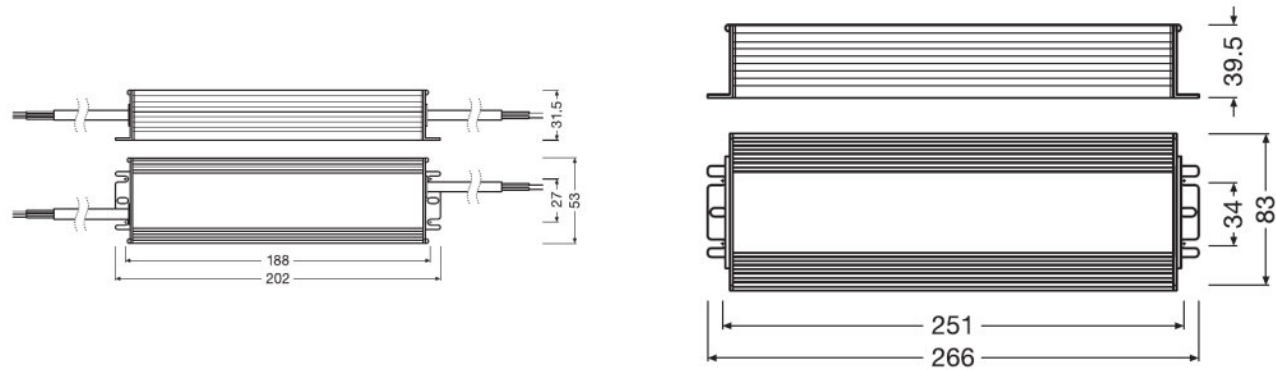
Product description	Nominal output power	Mains frequency	Nominal voltage	Nominal current	Device power loss	Power factor λ	Inrush current
OT FIT 150/220-240/12 P IN	150 W	50...60 Hz	220...240 V	085 A	14.8 W	095 ¹⁾	55 A ²⁾
OT FIT 300/220-240/12 P IN	300 W	50...60 Hz	220...240 V	18 A	28 W	095 ¹⁾	70 A ⁵⁾
Product description	Input voltage AC	Efficiency in full-load		Output ripple Voltage (100 Hz)		Nominal output voltage	
OT FIT 150/220-240/12 P IN	180...280 V	91 % ³⁾		< 3 % ⁴⁾		12.5 V	
OT FIT 300/220-240/12 P IN	180...280 V	91 % ³⁾		< 3 % ⁴⁾		12.5 V	

¹⁾ Typical, Full load, 230 VAC, 50 Hz / 60 Hz
²⁾ At Full Load, 240VAC, Cold StartDuration=500uS 50%Ipk – 50%Ipk
³⁾ at 230 V, 50 Hz
⁴⁾ ripple @ 100 Hz / full load
⁵⁾ At Full Load, 240VAC, Cold StartDuration=800uS 50%Ipk – 50%Ipk

Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Product weight
OT FIT 150/220-240/12 P IN	2020 mm	530 mm	315 mm	188.0 mm	27.0 mm	92000 g
OT FIT 300/220-240/12 P IN	2660 mm	830 mm	395 mm	251 mm	34.0 mm	151000 g

Product line drawing



OT FIT 150/220-240/12 P IN

OT FIT 300/220-240/12 P IN

Temperatures & operating conditions

Product description	Ambient temperature range	Permitted rel. humidity during operation
OT FIT 150/220-240/12 P IN	-40...+50 °C ¹⁾	5...85 % ²⁾
OT FIT 300/220-240/12 P IN	-40...+50 °C ¹⁾	5...85 % ²⁾

¹⁾ At fullload, Tc not exceeded

²⁾ Maximum 56 days/year at 85 %

Capabilities

Product description	Suitable for fixtures with prot. class	Overheating protection	Overload protection
OT FIT 150/220-240/12 P IN	I / II	Automatic reversible	Automatic reversible
OT FIT 300/220-240/12 P IN	I / II	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Dimmable	Number of channels
OT FIT 150/220-240/12 P IN	Automatic reversible	Yes	No	1
OT FIT 300/220-240/12 P IN	Automatic reversible	Yes	No	1

Product family datasheet

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
OT FIT 150/220-240/12 P IN	IP66/IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	CE / ENEC / RCM / BIS
OT FIT 300/220-240/12 P IN	IP66/IP67	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	CE / BIS / ENEC / RCM

Logistical data

Product description	Commodity code
OT FIT 150/220-240/12 P IN	850440829000
OT FIT 300/220-240/12 P IN	850440829000

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

Product description	Date of Declaration	Primary Article Identifier	Declaration No. in SCIP database
OT FIT 150/220-240/12 P IN	14-04-2022	4062172133524	In work
OT FIT 300/220-240/12 P IN	14-04-2022	4062172133562	In work

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

Product family datasheet

	User instruction OPTOTRONIC LED Power Supply
	Declarations of conformity OT FIT 12P CE 4192443 02 220222

Ecodesign regulation information:

Intended for use with LED modules.
The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

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
4062172133524	OT FIT 150/220-240/12 P IN	Shipping carton box 15	349 mm x 284 mm x 153 mm	15.16 dm ³	14185.00 g
4062172133562	OT FIT 300/220-240/12 P IN	Shipping carton box 10	419 mm x 329 mm x 123 mm	16.96 dm ³	15747.00 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.