

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 features

- Suitable for Class I/II luminaires
- SELV, V_{out}: 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 °C, max. 10 % failure rate)
- Mains voltage: 220 – 240 VAC
- IN version only for India

Product family datasheet

Technical data

Electrical data

Product description	Nominal output power	Mains frequency	Nominal voltage	Nominal current	Device power loss	Power factor λ	ECG efficiency
OT FIT 60/220-240/12 P	60 W	50...60 Hz	220...240 V	0.36 A	8.6 W	0.95 ¹⁾	87 % ²⁾
OT FIT 150/220-240/12 P	150 W	50...60 Hz	220...240 V	0.85 A	14.8 W	0.95 ¹⁾	91 % ²⁾
OT FIT 300/220-240/12 P	300 W	50...60 Hz	220...240 V	1.8 A	28 W	0.95 ¹⁾	91 % ²⁾
OT FIT 150/220-240/12 P IN	150 W	50...60 Hz	220...240 V	0.85 A	14.8 W	0.95 ¹⁾	91 % ²⁾
OT FIT 300/220-240/12 P IN	300 W	50...60 Hz	220...240 V	1.8 A	28 W	0.95 ¹⁾	91 % ²⁾

Product description	Inrush current	Output ripple Voltage (100 Hz)	Nominal output voltage	Input voltage AC
OT FIT 60/220-240/12 P	45 A ³⁾	< 3 % ⁴⁾	12.5 V	198...264 V
OT FIT 150/220-240/12 P	55 A ⁵⁾	< 3 % ⁴⁾	12.5 V	198...264 V
OT FIT 300/220-240/12 P	70 A ⁶⁾	< 3 % ⁴⁾	12.5 V	198...264 V
OT FIT 150/220-240/12 P IN	55 A ⁵⁾	< 3 % ⁴⁾	12.5 V	180...280 V
OT FIT 300/220-240/12 P IN	70 A ⁶⁾	< 3 % ⁴⁾	12.5 V	180...280 V

¹⁾ Typical, Full load, 230 VAC, 50 Hz / 60 Hz

²⁾ At full load and 230 V / At 50 Hz

³⁾ At Full Load, 240VAC, Cold StartDuration=250uS 50%Ipk-50%Ipk

⁴⁾ ripple @ 100 Hz / full load

⁵⁾ At Full Load, 240VAC, Cold StartDuration=500uS 50%Ipk-50%Ipk

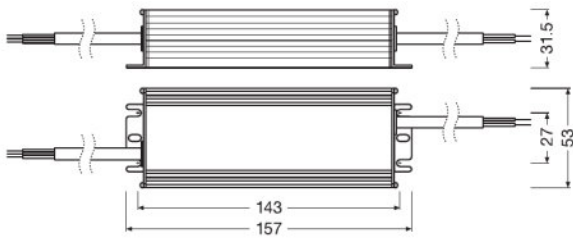
⁶⁾ At Full Load, 240VAC, Cold StartDuration=800uS 50%Ipk-50%Ipk

Dimensions & weight

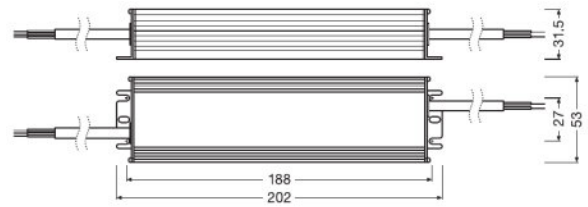
Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Product weight
OT FIT 60/220-240/12 P	157.0 mm	53.0 mm	31.5 mm	153 mm	27.0 mm	473.00 g
OT FIT 150/220-240/12 P	202.0 mm	53.0 mm	31.5 mm	188.0 mm	27.0 mm	920.00 g
OT FIT 300/220-240/12 P	266.0 mm	83.0 mm	39.5 mm	251 mm	34.0 mm	1510.00 g
OT FIT 150/220-240/12 P IN	202.0 mm	53.0 mm	31.5 mm	188.0 mm	27.0 mm	920.00 g
OT FIT 300/220-240/12 P IN	266.0 mm	83.0 mm	39.5 mm	251 mm	34.0 mm	1510.00 g

Product family datasheet

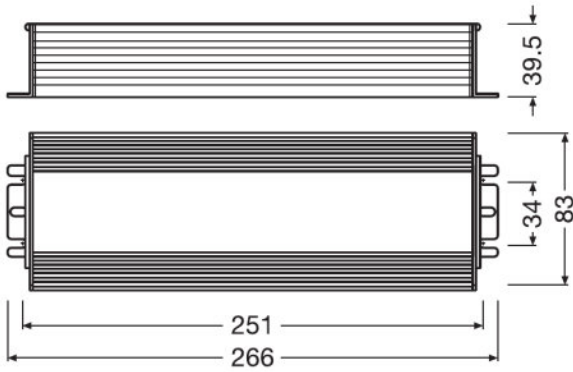
Product line drawing



OT FIT 60/220-240/12 P



OT FIT 150/220-240/12 P, OT FIT 150/220-240/12 P IN



OT FIT 300/220-240/12 P, OT FIT 300/220-240/12 P IN

Product family datasheet

Temperatures & operating conditions

Product description	Ambient temperature range	Permitted rel. humidity during operation
OT FIT 60/220-240/12 P	-40...+50 °C ¹⁾	5...85 % ²⁾
OT FIT 150/220-240/12 P	-40...+50 °C ¹⁾	5...85 % ²⁾
OT FIT 300/220-240/12 P	-40...+50 °C ¹⁾	5...85 % ²⁾
OT FIT 150/220-240/12 P IN	-40...+50 °C ¹⁾	5...85 % ³⁾
OT FIT 300/220-240/12 P IN	-40...+50 °C ¹⁾	5...85 % ³⁾

¹⁾ At fullload, Tc not exceeded

²⁾ Non-condensing

³⁾ Maximum 56 days/year at 85 %

Capabilities

Product description	Suitable for fixtures with prot. class	Overheating protection	Overload protection
OT FIT 60/220-240/12 P	I / II	Automatic reversible	Automatic reversible
OT FIT 150/220-240/12 P	I / II	Automatic reversible	Automatic reversible
OT FIT 300/220-240/12 P	I / II	Automatic reversible	Automatic reversible
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	Number of channels	Dimmable
OT FIT 60/220-240/12 P	Automatic reversible	Yes	1	No
OT FIT 150/220-240/12 P	Automatic reversible	Yes	1	No
OT FIT 300/220-240/12 P	Automatic reversible	Yes	1	No
OT FIT 150/220-240/12 P IN	Automatic reversible	Yes	1	No
OT FIT 300/220-240/12 P IN	Automatic reversible	Yes	1	No

Programming

Product description	Tuner4TRONIC Field App	Tuner4TRONIC
OT FIT 60/220-240/12 P	No	No
OT FIT 150/220-240/12 P	No	No
OT FIT 300/220-240/12 P	No	No
OT FIT 150/220-240/12 P IN	No	No
OT FIT 300/220-240/12 P IN	No	No

Product family datasheet

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
OT FIT 60/220-240/12 P	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 / CCC / ENEC / TISI / RCM
OT FIT 150/220-240/12 P	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 / CCC / ENEC / TISI / RCM
OT FIT 300/220-240/12 P	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 / CCC / ENEC / TISI / RCM
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 60/220-240/12 P	850440829000
OT FIT 150/220-240/12 P	850440829000
OT FIT 300/220-240/12 P	850440829000
OT FIT 150/220-240/12 P IN	850440829000
OT FIT 300/220-240/12 P IN	850440829000

Application advice




Product family datasheet

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 OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	Declarations of conformity OT FIT 12P CE 4192443 02 130220

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172133487	OT FIT 60/220-240/12 P	Shipping carton box 15	349 mm x 224 mm x 153 mm	11.96 dm ³	7430.00 g
4062172133500	OT FIT 150/220-240/12 P	Shipping carton box 15	349 mm x 284 mm x 153 mm	15.16 dm ³	14185.00 g
4062172133548	OT FIT 300/220-240/12 P	Shipping carton box 10	419 mm x 329 mm x 123 mm	16.96 dm ³	15747.00 g
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.