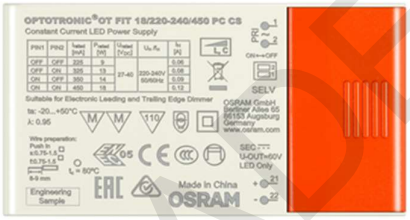
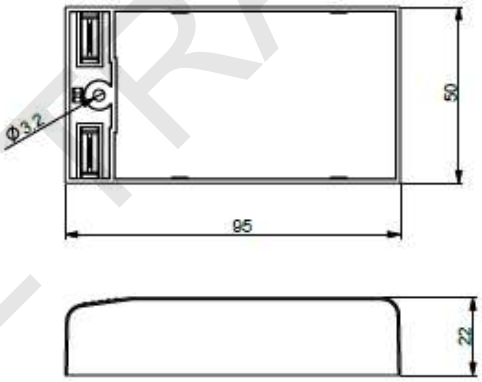
Light is OSRAM

OT FIT 18/220 – 240/450 CS PC





Constant Current LED Power Supply

225mA - 325mA - 350mA - 450mA

OPTOTRONIC® LED Power Supply with high reliability in extra small & compact housing, providing phase cut dimming performance. It equips with 4 selectable currents, fits in light fixtures for shop and office lighting.

Benefits

Suitable for use with electronic Leading &Trailing Edge dimmer;
4 output current selected by DIP-switch;
Low ripple for output current
Extra small housing for compact fixture;
Long lasting and high reliability
Safety ensured by OSRAM (SELV)
5 years guarantee, details follow:
https://www.osram.com/corporate/home/services/guarantees/guarantee-level-2/index.jsp

Applications

Suitable for Downlights, Spotlights and other indoor luminaires
Suitable for luminaires of protection class I and II

Approval marks and Symbols

CCC, CE, EAC, ENEC, RCM

The controlgear can be used where normally flammable materials, including building insulation, are or may be present, but cannot be abutted against any material and cannot be covered in normal use.

Geometry (L x W x H): 95 x 50 x 22mm

Product Features

- Output Current: 225/325/350/450mA
- Output Voltage: $27V_{DC}$ – $40V_{DC}$
- Phase Cut for Leading & Trailing Edge
- Suitable for Class I and II luminaires
- Output Power: 6.1-18W
- Ambient Temp Ta : - 20 to +50°C
- Typ. Efficiency : 82%
- 50'000 hours lifetime@Tc max -10°C

Electrical Specifications

	Item	Value	Unit	Remarks
Input	Nominal Voltage	220 – 240	Vac	
	Nominal frequency	50/60	Hz	
	AC voltage range	198 – 264	Vac	
	DC voltage range	NA	V	
	Maximum voltage	275	V	2 hours maximum ,NO damage to LED Module
	Nominal current	120	mA	Full load, 230V, 50 Hz, typical. Refer to Table 1 for details
	Total Harmonic Distortion (THD)	< 20	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.95		Full load, 230 V, 50 Hz / see graphs
	Efficiency	> 82	%	Full load, 230 V, 50 Hz, typical / see graphs
	No-load power	0.5	W	230V, typical
	Power loss	4	W	At 230V, Input power 22W max. Refer to Table 1 for details
	Protection class	I/II		Suitable for class I and class II luminaires
	Inrush current	<10	A	t_{width} = 100 µs typical (measured at 50% Ipeak)
	Max. units per circuit breaker	B16: 53; B10: 33 C16: 88; C10: 55		
	Leakage current	< 0.7	mA	Output floating
Output	Nominal voltage range	27 – 40	V_{DC}	Refer to Table 1 for details
	Maximum voltage	60	V_{DC}	Open circuit
	Nominal current range	225/325/350/450	mA	
	Current accuracy	+/-7.5%		Iout=225mA<+-10%
	Current ripple	< 5%		230V, 50Hz
	Nominal power range	6.1-18	W	Partial Load. Refer to Table 1 for details
	Maximum power	18	W	Ta ≤ 50°C, Refer to Table 1 for details
	Galvanic isolation	SELV		3, 75 kVrms. Output to mains - Touch current < 0.7 mA
Dim	Dimming control	Yes		Not dimmable
	Dimming range	5-100%	%	
	Dimming technique	Leading & Trailing Edge		
	Frequency	100	Hz	
	Galvanic isolation	SELV		
Environment	Ambient temperature range t_a	-20 …+50	°C	Refer to Table 1 for details
	Max. case temperature t_c max	80	°C	Measured on t_c point indicated of the product label.
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20 …+80	°C	Cool down before operating
	Relative humidity	5 ... 85	%	Not condensing
	Surge transient protection	1 | 2	kV	L/N | LN/PE acc. IEC 61547 Clause 5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	35'000 50'000	hrs	t_{cmax} = 80°C, max. 10% failure rate t_{cmax} = 70°C, max. 10% failure rate

Protections

Over temperature
Automatic, auto reversible

Overload
Automatic, auto reversible

Short-circuit
Yes

Input overvoltage
Maximum allowed input voltage 275V AC

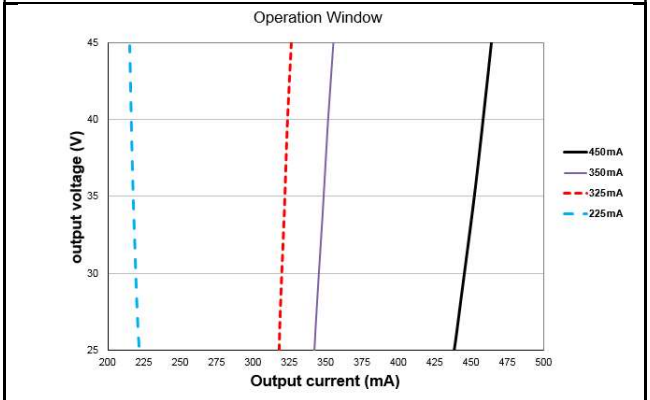
Output overvoltage
Yes, Limitation of Output voltage < 60V

Wire preparation:
Push in
s:0.75-1.5
f:0.75-1.5
8-9 mm

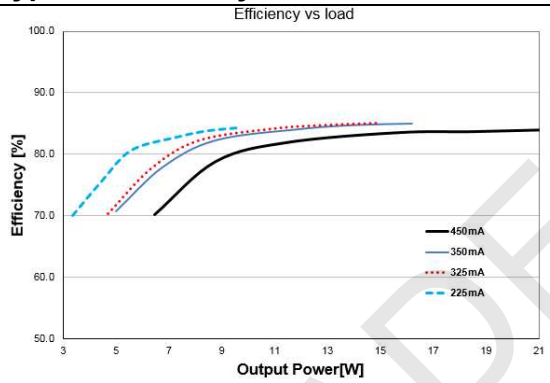
Wiring Diagram

Terminal: Wago 744 or equivalent	Push in terminals	
Max. cable length	2 m	Cable Type:
Geometry (l x b x h):	95 x 50 x 22 mm	H03VVH2-F 2x0.75mm2
Weight:	80g	H03VV-F 2x0.75 mm2

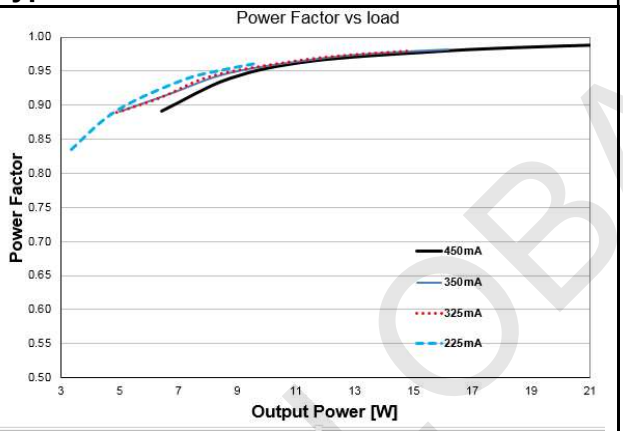
Typical Operating window



Typical Efficiency Vs load



Typical Power factor Vs load



Typical THD Vs load

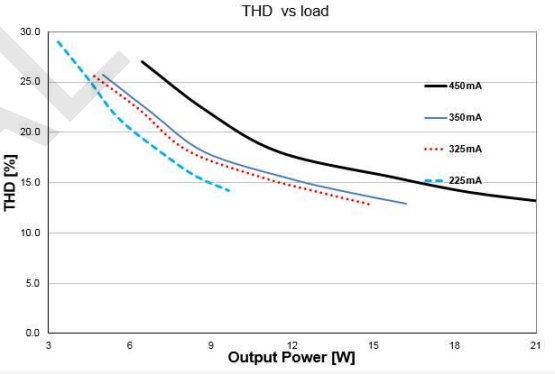


Table 1 – Rated output power and current sets				
I out (mA)	**225**	**325**	**350**	**450**
U min (V)	27	27	27	27
U max (V)	40	40	40	40
P min (W)	6.1	8.8	9.5	12.2
P max (W)	9.0	13.0	14.0	18.0
Ta (°C)	50	50	50	50
Tc (°C)	80	80	80	80
Line Current, nominal@230V mA	60	80	90	120
Max power Loss@230V (W)	2	2.9	2	4
Input Power@230V (W)	11	15.9	17	22

Pin1	Pin2	Current
OFF	OFF	225
OFF	ON	325
ON	OFF	350
ON	ON	450

Current selection by DIP-switch

Standards

Safety: IEC 61347-1, IEC 61347-2-13
Performance: IEC 62384
Harmonic content: IEC 61000-3-2
Immunity: IEC 61547
IEC 61000-3-3

EAN10	Product name	Pcs/ box
4062172007559	OT FIT 18/220-240/450 CS PC	20

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