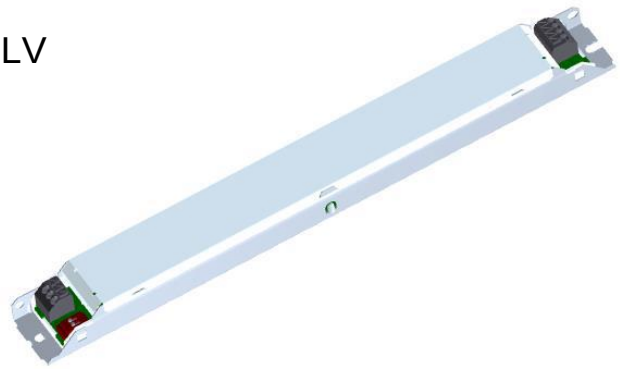
Light is OSRAM

Product data sheet: OT FIT 75/220-240/1400 CS L G2

Constant Current LED Power Supply SELV

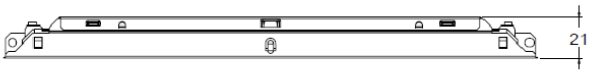
1100mA - 1200mA - 1300mA- 1400mA

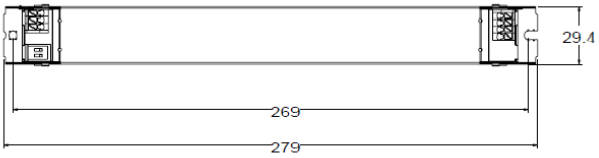


OPTOTRONIC® LED Power Supply is the reliable Choice for linear and area fixtures for office – Industrial – shop lighting

Benefits:

Flexibility with 1 driver with 4 output currents
High quality of light with very low ripple
Small, slim white metal housing 30x21mm
Long lasting and high reliability





Applications
Linear and area lighting
Office – industrial – shop

Approval marks and Symbols

CE, VDE-ENEC, VDE-EMC, RCM, 110, EL
In preparation, if not already printed on product label

Product Features

- Output currents: 1100/1200/1300/1400 mA
- Output voltage: $27V_{DC}$ – $51V_{DC}$
- Output power: 29.7 W – 75.6 W
- Typ. Efficiency: up to 87%
- Suitable for emergency lighting
- Low ripple, Low THD
- Overload & -temperature protection
- 100`000 h lifetime at t_c = 65°C
- T_c max = 80°C
- Wide t_a range -25…+50°C

Electrical Specifications

	Item	Value	Unit	Remarks
Input	Nominal Voltage	220 - 240	V_{AC}	
	Nominal frequency	0/ 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 - 276	V	DC
	Maximum voltage	300	V_{AC}	1 h
	Nominal current	365	mA	230V, Refer to table 1 for details
	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
	Efficiency	87	%	Full load, 230 V, 50 Hz / typical/ see graphs
	Stand-by power	NA	W	
	Power losses	11	W	At 230 V Input power 82.4 W max. refer to table 1 for details
	Protection class	I		Suitable for class I and II luminaires
	Inrush current	40	A	Th = 200 µs typical (measured at 50% Ipeak)
	Max. units per circuit breaker	B16: 13 B10: 8		Grid impedance 1000mOhm
	Leakage current	< 0.5	mA	Through PE, output floating
Output	Nominal voltage range	27 – 51	V_{DC}	Refer to table 1 for details
	Maximum voltage	60	Vdc	Open Circuit
	Nominal current range	1100/1200/1300/1400	mA	
	Current accurancy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	29.7 – 71.4	W	Partial Load. Refer to table 1 for details
	Maximum power	71.4	W	Ta = 50°C, refer to Table 1 for details
	Galvanic isolation	SELV		Output to mains – touch current < 0.5 mA
Environment	Ambient temperature range t_a	-25…+50	°C	Refer to table 1 for details
	Maximum case temperature t_c	80	°C	Measured on t_c point indicated of the product label
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-25…+80	°C	Cool down before operating
	Relative humidity	5…85	%	Not condensing
	Surge transient protection	1 / 2	kV	L/N /LN/PE acc to IEC 61547
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50`000	hrs	t_c = 80°C, 10% failure rate

Protections

Over temperature
Automatic, reversible

Overload
Non-reversible, mains switchover is needed to re-power the load

No load
Yes, switches off

Short-circuit
Automatic, reversible

Input overvoltage
Maximum allowed input voltage 300V AC/ 1hr

Output overvoltage
Yes, limitation of Output voltage < 60V

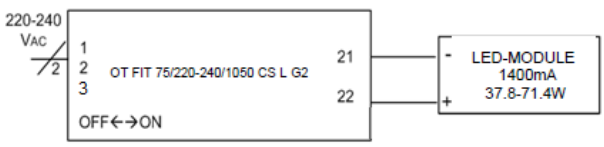
Output under voltage
NA

LED load protection
NA

Wiring Diagram

Terminal:	Push in terminals
Max. cable length - system:	2 m
Geometry (l x b x h):	280 x 30 x 21 mm
Weight:	tbd

Wire preparation:
Push in
s:0.5-1.5
f:0.75-1.5
7-8 mm



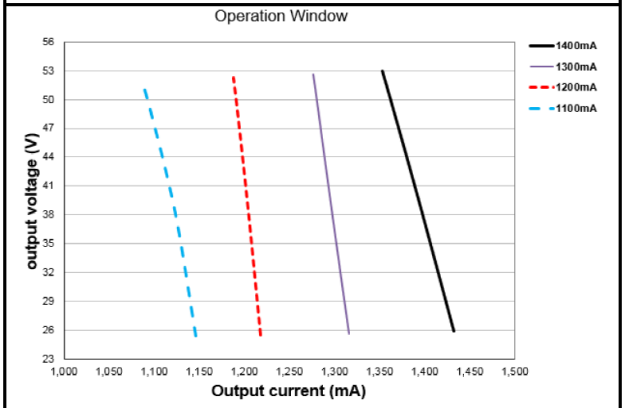
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

DIPswitches provide basic insulation only.

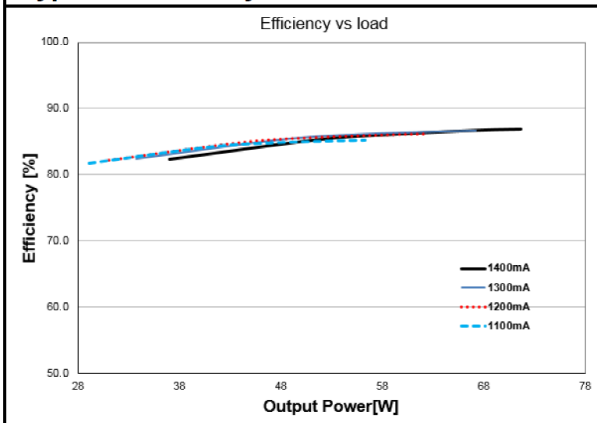
Therefore changes in the position of the DIPswitches should be realized only in state of zero potential.

DIPswitches must be installed touch protected inside the luminaire.

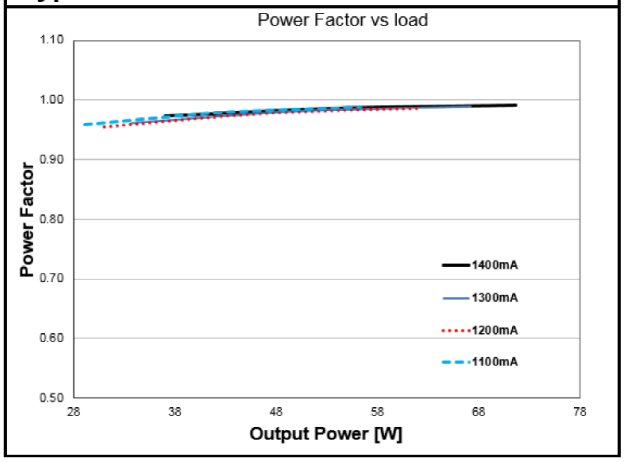
Typical Operating window



Typical Efficiency over load



Typical Power factor over load



Typical THD over load

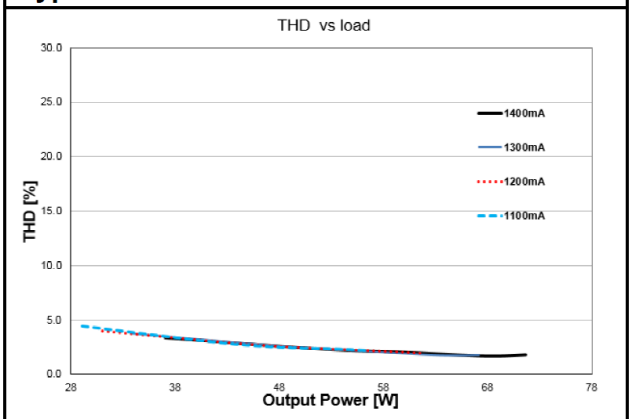


Table 1 - Rated output power and current sets				
Iout (mA)	**1100**	**1200**	**1300**	**1400**
U min [V]	27	27	27	27
U max [V]	51	51	51	51
P min [W]	29.7	32.4	35.1	37.8
P max [W]	56.1	61.2	66.3	71.4
Ta [°C]	50	50	50	50
Tc [°C]	80	80	80	80
Line Current, nominal@230V mA	295	325	355	365
Max Power Loss@230V [W]	9.5	9.8	10.3	11.0
Input Power @230V [W]	65.6	71.0	76.6	82.4

Pin1	Pin2	Current
ON	ON	1400
ON	OFF	1300
OFF	ON	1200
OFF	OFF	1100

Current selection by DIP-switch

Remarks

- **Input over voltage protection: mains up to 300 Vac,** for one hour maximum, will not destroy both the unit and the load; shut down of load might occur in this condition.
- **Dipswitch:** don't change the current by Dipswitch during driver operation.
- **Output short circuit / undervoltage protection:** shut down of load might happens if V_out is out of operating range
- **Output overload protection**: the unit is intrinsically protected against over loading because the output voltage is limited.
- **Output over voltage protection**: shut down of load happens if V_out exceeds 60V
- **No load operation:** the unit automatically switches off. Mains switchover is needed to re-power the load.
- **Over temperature protection**: the unit is protected against temporary overheating by automatic reduction of the output current when tc > 80°C
- **Switchover time**: lower than 0.5 s, both AC and DC mains.
- **Output power hold time**: > 4 ms, in case of mains dips.
- **Emergency lighting**: this LED power supply is suitable for emergency lighting fixtures acc. to EN 60598-2-22; according to IEC 61347-2-13 Annex J.
- **Emergency Escape Lighting**: this LED power supply is suitable for emergency escape lighting systems acc. to EN 50172

Standards

IEC 61347-1
IEC 61347-2-13
IEC 62384
IEC 61000-3-2
IEC 61000-3-3
IEC 61547

Product name	EAN10	EAN40	Pieces / box
OT FIT 75/220–240/1400 CS L G2	4052899522572	4052899522589	20

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6
80807 Munich, Germany
Phone +49 89 6213-0
www.osram.com

June 2017