Light is OSRAM

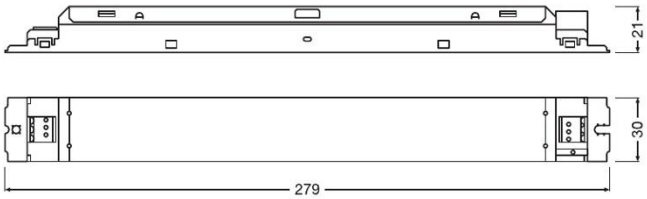
OT FIT 55/220-240/1A0 NFC L

Constant current LED driver incl. NFC Interface – SELV

Wide operating area up to 1050mA



Not final product picture



Housing material: metal, white painted

Flexible, reliable solution for energy saving lighting:
Combining a high operating area with a maximum of efficiency and lifetime in small dimensions
Flexible and future-proof current setting via NFC*

Benefits
Wide operating range: 400 – 1050mA
Adjustable current via NFC
CLO integrated for additional savings
5 years guarantee
Small, slim white metal housing 30 x 21 mm
Suitable for emergency lighting units

Applications
Linear and area lighting
Office – industrial – shop – retail

Applications
CE, VDE- ENEC, RCM, , EAC, BIS, EL
In preparation, if not already printed on the label

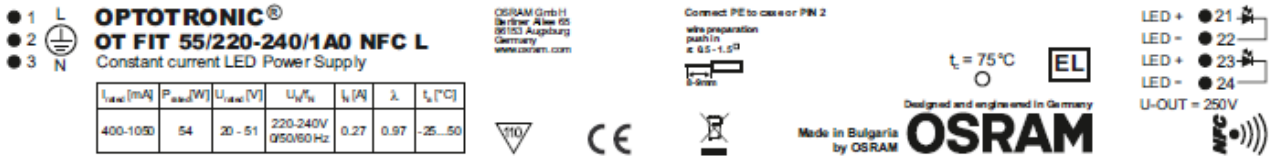
*for more information please refer to Tuner4TRONIC™

Product Features

- Output current range 400 – 1050mA
- Overload protection
- Very low ripple ≤4%
- High efficiency up to 90%
- Output power up to 55W
- Mains voltage 220 – 240V
- Suitable for emergency lighting
- Fast NFC programming (current)
- Overtemperature protection
- CLO integrated
- 100’000 h lifetime at t_c = 65°C
- t_c max = 75 °C
- Wide t_a range -25 – +50 °C
- 5 years guarantee

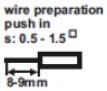
Electrical Specifications

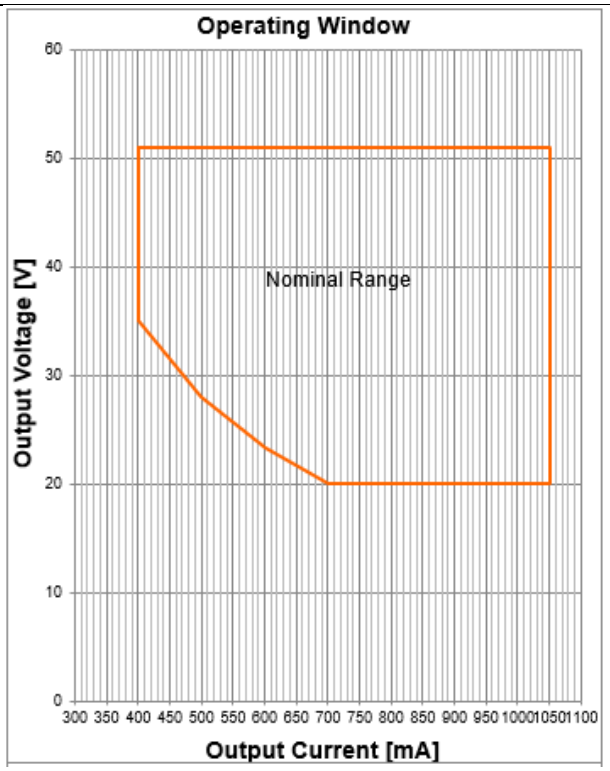
	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	DC or pulsating DC
	Maximum voltage	350	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.27	A	
	Total Harmonic Distortion (THD)	~ 10	%	Full load
	Power factor	> 0.97		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 99	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.3	s	
	Power losses	5	W	Maximum, full load
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	≤ 20	A pk	th = 200 µs
	Max. units per circuit breaker	B16: 13 B10: 8		
	Protective conductor current	< 0.5	mA	Through PE
OUTPUT	Nominal voltage range	20 – 51	V	
	Maximum voltage	< 60	Vdc	w/ Open Circuit
	Nominal current range	400 – 1050	mA	
	Current accuracy	+/- 3	%	
	Current ripple	< 4	%	100 Hz., low freq. ripple is negligible
	Nominal power range	21 – 55	W	
	Maximum power	55	W	
	Emergency output factor (EL)	15	%	ta = -25…+50°C: EOF_l =1 ta = +50…+80°C: EOF_l =0.45
	Galvanic isolation	YES		SELV
ENVIRONMENT	Ambient temperature range t_a	-25 …+50	°C	
	Maximum case temperature t_c	75	°C	Measured on t_c point indicated of the product label
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-25 …+85	°C	
	Relative humidity	5 ... 85	%	Not condensing
	Surge transient protection	1 | 2	kV	L/N | LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000 100'000	h	t_c = 75°C, 0.2% / 1'000 h failure rate, 24h ON t_c = 65°C, 0.1% / 1'000 h failure rate, 24h ON

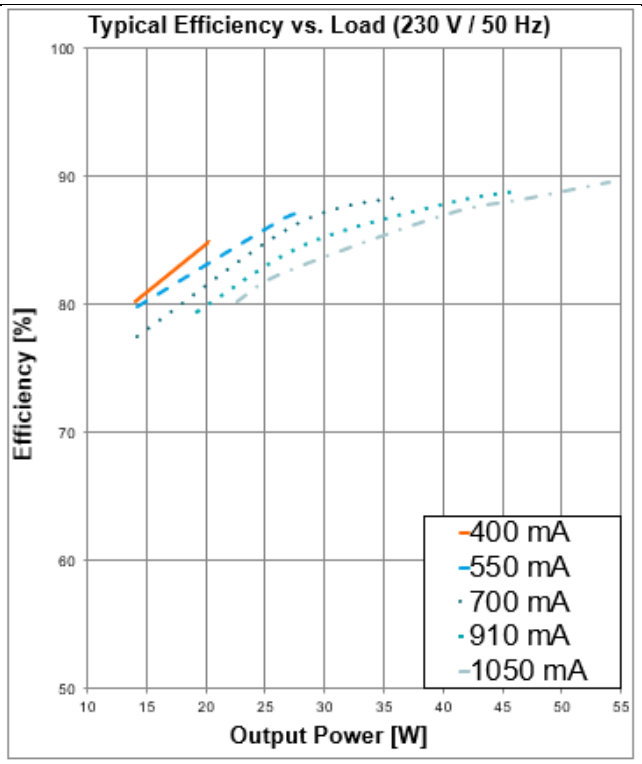


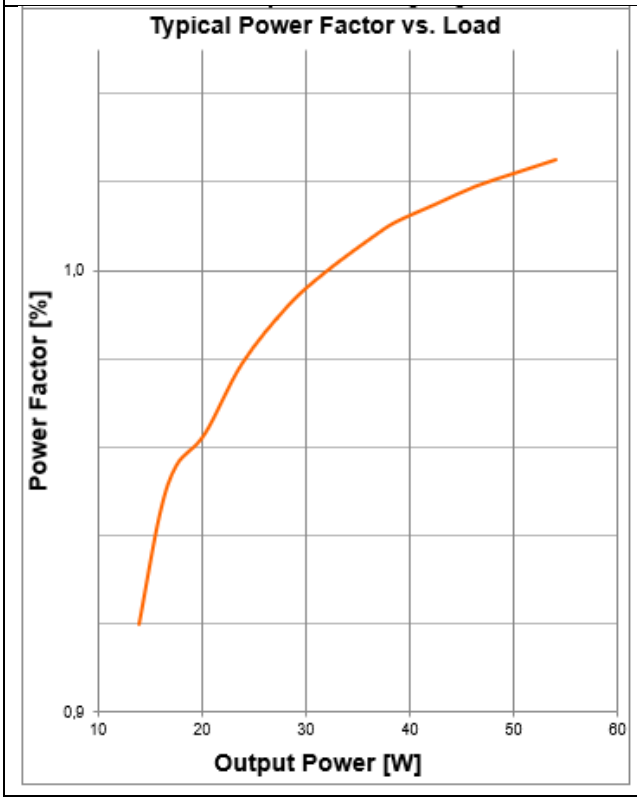
Wiring Diagram

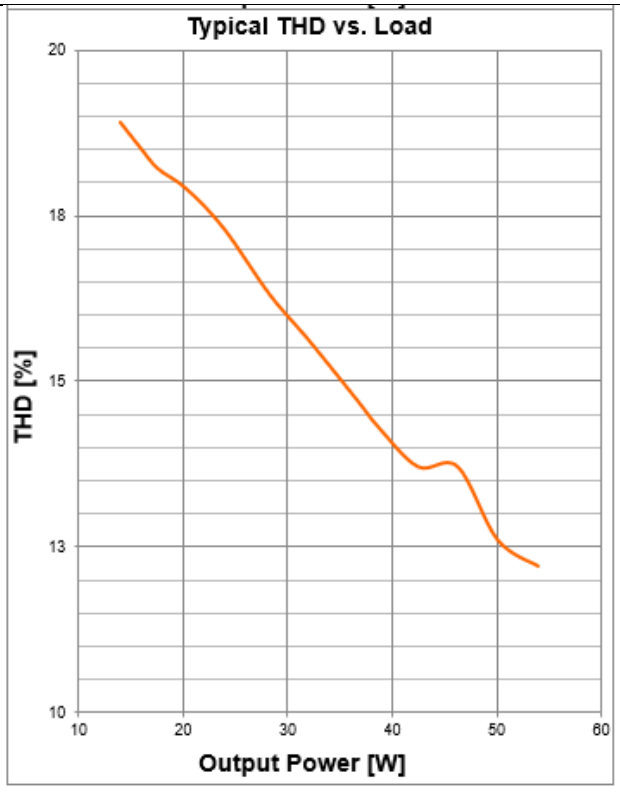
Terminal:	Push in terminals
Max. cable length - system:	2 m
Geometry (l x b x h):	280 x 30 x 21 mm




Operating Window
Output Voltage [V]
Output Current [mA]
Nominal Range
60
50
40
30
20
10
0
300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100


Typical Efficiency vs. Load (230 V / 50 Hz)
Efficiency [%]
Output Power [W]
100
90
80
70
60
50
10 15 20 25 30 35 40 45 50 55
400 mA
550 mA
700 mA
910 mA
1050 mA


Typical Power Factor vs. Load
Power Factor [%]
Output Power [W]
1,0
0,9
10 20 30 40 50 60


Typical THD vs. Load
THD [%]
Output Power [W]
20
18
15
13
10
10 20 30 40 50 60

Remarks

- **Input overvoltage protection:** mains up to 350 Vac, for two hours maximum, will not destroy both the unit and the load; shut down of the load might occur in this condition.
- **Input surge protection:** the unit is protected against surge up to 1kV between L-N (symmetric surge) and 2 kV L/N-PE (asymmetric surge). During an asymmetric surge, the voltage between the LED outputs and PE is equal or lower than the applied surge voltage.
- **Output short circuit / undervoltage protection**: shut down of the load happens if Vout is out of the operating range.
- **Output overload protection:** unit automatically reduces the output current to keep the output power below 55W.
- **Output over voltage protection:** shut down of the load might happen if Vout exceeds 51V
  - **Step 1:** output current reduction to decrease Vout**;**
  - **Step 2:** shut down of the load at longer or extreme overvoltage.
- **No load operation:** the unit automatically switches off, the maximum output voltage is <60V.
- **Overtemperature protection:** the unit is protected against temporary overheating by automatic reduction of the output current when tc > 75°C**.**
- **Switchover time:** lower than 0.5 s, from AC to DC mains and viceversa.
- **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 EN 61347-2-13 Annex J.

Standards

EN 61347-1

EN 61347-2-13

EN 62384

EN 61000-3-2

EN 61000-3-3

EN 61547

EN 55015

Product name	EAN10	EAN40	**Pieces / box**
OT FIT 55/220-240/1A0 NFC L	4062172064026	4062172064033	20

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