

**OT FIT 55/220–240/1050 CS L AP**

Constant Current LED Power Supply

800mA - 900mA - 975mA- 1050mA

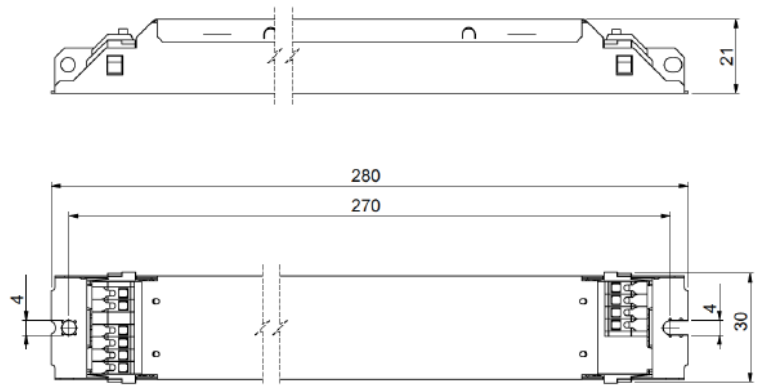
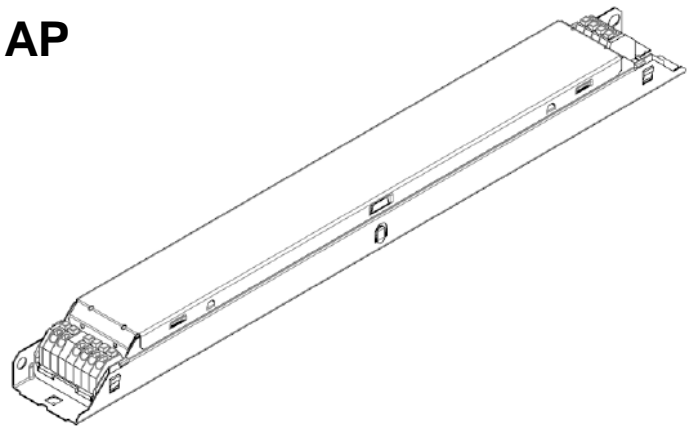
OPTOTRONIC® LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

**Benefits**

Flexibility with 1 driver offers 4 output currents;  
High quality light with very low ripple;  
Enable slim fixture design with flat 21mm height metal housing  
Long lasting and high reliability  
Safety ensured by OSRAM (SELV)

**Applications**

Linear and area lighting  
Office – industrial - shop



Housing material: metal, white painted.

Approval marks (under preparation if not on label)

**Product Features**

- Output current: 800/900/975/1050mA
- Output voltage : 27V<sub>DC</sub> – 54V<sub>DC</sub>
- Output power : 22 W – 56.7W
- Input voltage: 220 – 240V<sub>AC</sub>
- Ambient temp range  $t_a$ : -20 to +50°C
- Low ripple, low THD
- Fixed output (i.e. no dimming)
- Typ. Efficiency : 90%
- SELV
- 50'000 hours lifetime

## Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V <sub>AC</sub>	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V <sub>AC</sub>	Permitted voltage range
	DC voltage range	NA	V	
	Maximum voltage	300	V	1hrs
	Nominal current	280	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	90	%	Full load, 230 V, 50 Hz, typical / see graphs
	Stand-by power	NA	W	
	Power loss	6.4	W	at 230V, Input power 63 W max. Refer to Table 1 for details
	Protection class	I		
	Inrush current	<16	A	t <sub>width</sub> = 100 µs typical (measured at 50% I <sub>peak</sub> )
	Max. units per circuit breaker	B16: 23; B10: 14		
Leakage current	< 0.7	mA	Output floating	
OUTPUT	Nominal voltage range	27 – 54	V <sub>DC</sub>	Refer to Table 1 for details
	Maximum voltage	60	V <sub>DC</sub>	Open circuit
	Nominal current range	800/900/975/1050	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	21.6 – 56.7	W	Partial Load. Refer to Table 1 for details
	Maximum power	56.7	W	T <sub>a</sub> =50°C, Refer to Table 1 for details
	Galvanic isolation	SELV		Output to mains - Touch current < 0.7 mA
DIMMING	Dimming control	No		Not dimmable
	Dimming range	NA	%	
	Dimming technique	NA		
	Frequency	NA	Hz	
	Galvanic isolation	NA		
ENVIRONMENT	Ambient temperature range t <sub>a</sub>	-20 ... +50	°C	Refer to Table 1 for details
	Maximum case temperature t <sub>c</sub>	80	°C	Measured on t <sub>c</sub> 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 61000-3-2
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000	hrs	t <sub>c</sub> = 80°C, 10% failure rate

### Protections

#### Over temperature

Automatic, reversible

#### Overload

Automatic, reversible

#### No load

Yes

#### 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:

Max. cable length - system:

Geometry (l x b x h):

Weight: 195g

Push in terminals

2 m

280 x 30 x 21 mm

#### Wire preparation:

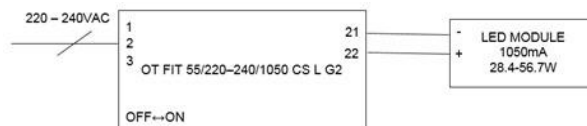
Push in

s: 0.5-1.5

f: 0.75-1.5



7-8 mm



Example with 1050mA LED module

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

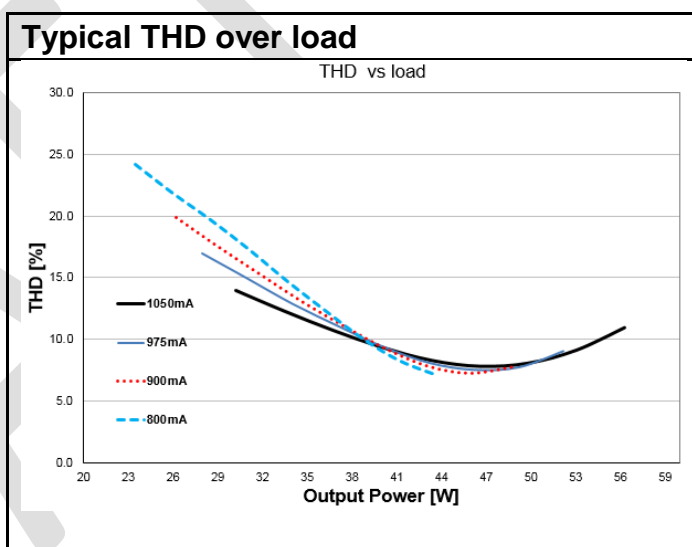
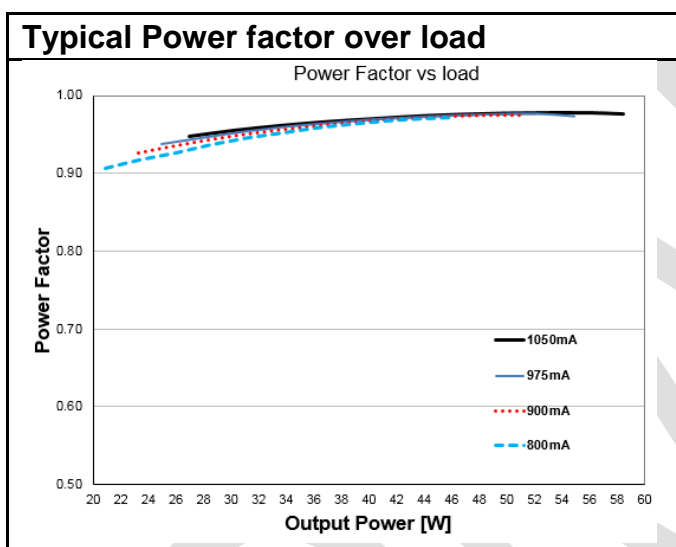
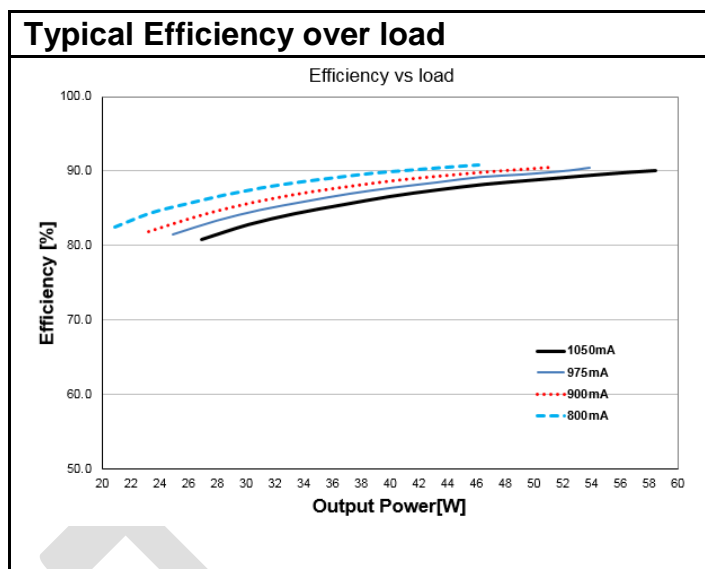
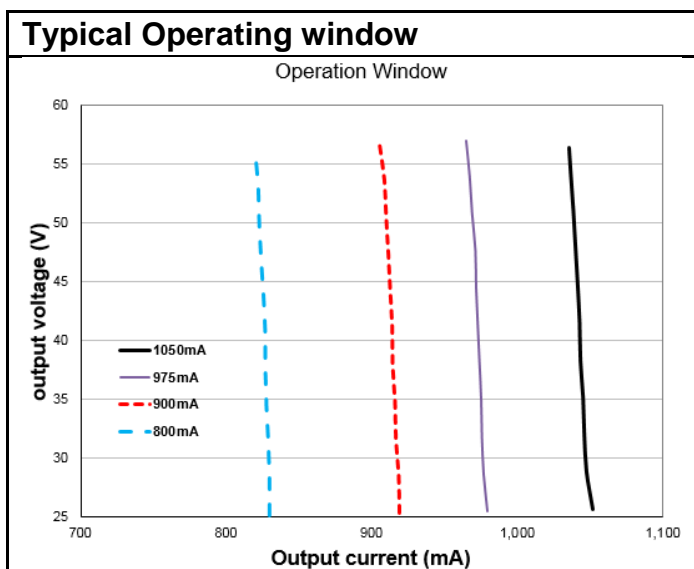


Table 1 - Rated output power and current sets

lout (mA)	800	900	975	1050
U min [V]	27	27	27	27
U max [V]	54	54	54	54
P min [W]	21.6	24.3	26.3	28.4
P max [W]	43.2	48.6	52.7	56.7
Ta [°C]	50	50	50	50
Tc [°C]	80	80	80	80
Line Current, nominal@230V mA	220	240	260	280
Max Power Loss@230V [W]	4.6	5.3	5.8	6.4
Input Power @230V [W]	48.5	54	58	63

Pin1	Pin2	Current
ON	ON	1050
ON	OFF	975
OFF	ON	900
OFF	OFF	800

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 61000-3-3  
 IEC 61547

Product name	EAN10	EAN40	Pieces / box
OT FIT 55/220–240/1050 CS L G2	TBD	TBD	20

**Manufacturer’s address:**

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**Disclaimer (Engineering Samples)**

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