

OT FIT 40/220-240/1A0 CS

Constant Current LED Power Supply

800mA - 900mA - 950mA- 1050mA

OPTOTRONIC® LED Power Supply
with high reliability in extra small & compact
housing. Equips with 4 selectable currents fits in
light fixtures for shop and office lighting.

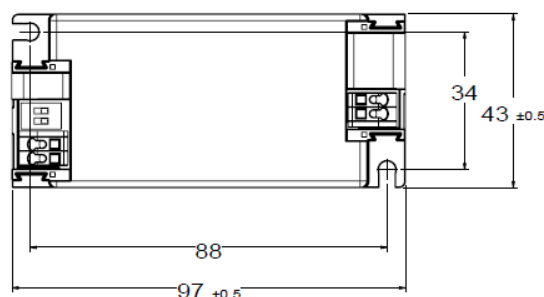
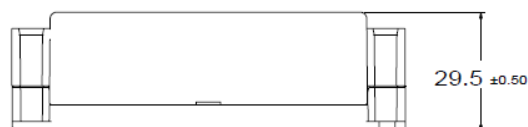
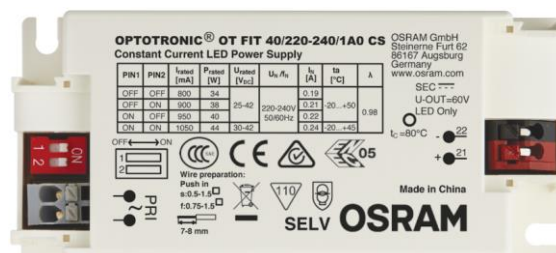
Benefits

1 driver with 4 output currents;
High quality light with very low ripple;
Extra small housing for compact fixture;
Long lasting and high reliability
Safety ensured by OSRAM (SELV)
5 years guarantee

Applications

Downlights, Spotlights and Panels

Approval marks (under preparation if not on label)



L	97 mm
L1	88 mm
B	43 mm
B1	34 mm
H	29.5 mm

Product features

- Output currents: 800/900/950/1050mA
- Output voltage: 25V_{DC} – 42V_{DC}
- Output power: 20W - 44W
- Suitable for class I and II luminaires
- Fixed Output (no dimming)
- Low ripple, low THD
- Extra small housing
- Typ. Efficiency: 90%
- SELV
- Up to 50'000 hours lifetime

Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V _{AC}	
	Nominal frequency	50 / 60	Hz	
	AC voltage	198 – 264	V _{AC}	Safety voltage range
	DC voltage	NA	V	
	Maximum voltage	275	V	2hrs
	Nominal current	240	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
	No-load power	< 0.5	W	230V, typical
	Stand-by power	NA	W	
	Power loss	4.9	W	at 230V, Input power 49W max. Refer to Table 1 for details
	Protection class	II		Suitable for class I and class II luminaires
	Inrush current	<16	A	t _{width} = 100 µs typical (measured at 50% I _{peak})
	Max. units per circuit breaker	B16: 25; B10: 15		
OUTPUT	Leakage current	< 0.7	mA	Output floating
	Nominal voltage range	25 – 42	V _{DC}	Refer to Table 1 for details
	Maximum voltage	60	V _{DC}	Open circuit
	Nominal current range	800/900/950/1050	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	20 – 44	W	Partial Load. Refer to Table 1 for details
	Maximum power	44	W	Refer to Table 1 for details
DIMMING	Galvanic isolation	SELV		Output to mains - Touch current < 0.7 mA
	Dimming control	No		Not dimmable
	Dimming range	NA	%	
	Dimming technique	NA		
	Frequency	NA	Hz	
ENVIRONMENT	Galvanic isolation	NA		
	Ambient temperature range t _a	-20 ... +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	-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
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000	hrs	t _c = 70°C (operating at 10 °C below T _c , max. failure rate of 10 %)

Protections

Over temperature

Automatic, reversible

Overload

Automatic, reversible

No load

Yes, limitation of Output voltage < 60V

Short-circuit

Automatic, reversible

Input overvoltage

Maximum allowed input voltage 275V AC

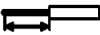
Output overvoltage

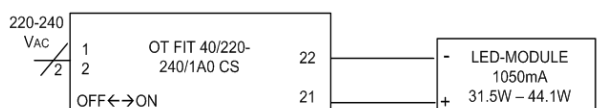
Yes, limitation of Output voltage < 60V

Wiring Diagram

Terminal: Push in terminals
 Max. cable length - system: 2 m
 Geometry (l x b x h): 97 x 43 x 29.5 mm
 Weight: 110 g

Wire preparation:

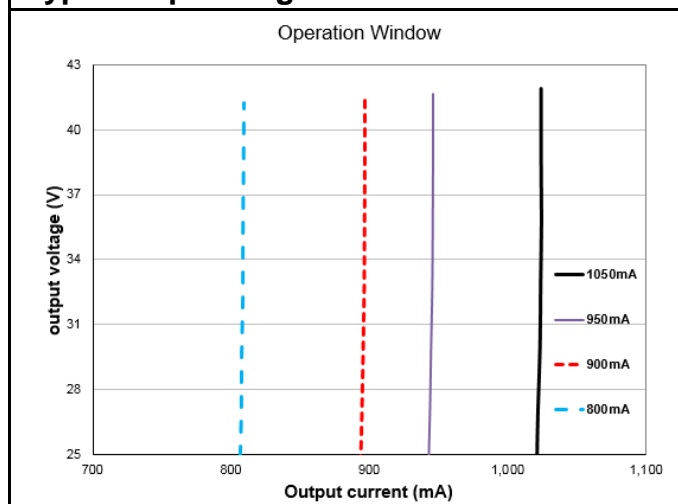
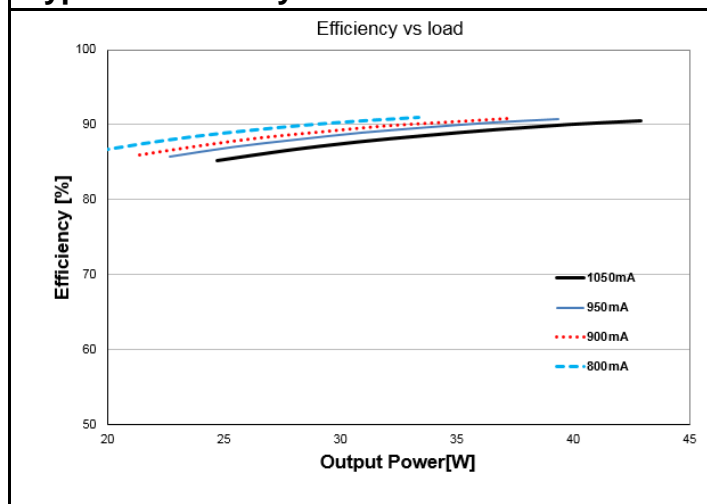
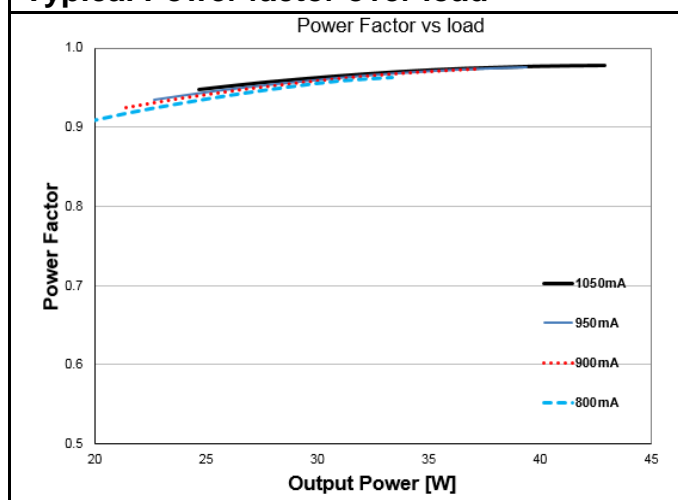
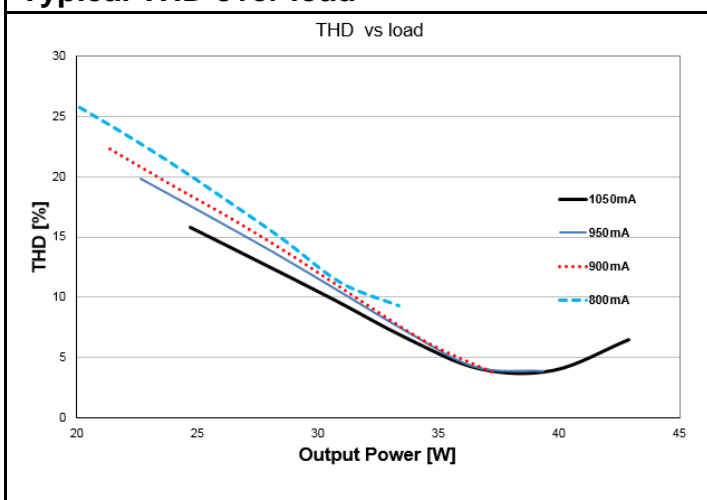
Push in
 s: 0.5-1.5 mm
 f: 0.75-1.5 mm

 7-8 mm



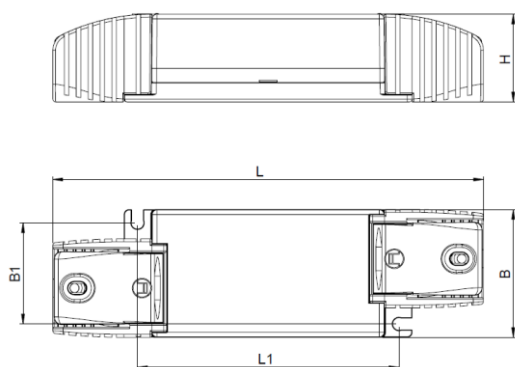
Example with 1050mA LED module

For build-in: 0.5-1.5 mm², for independent: 0.75-1.5 mm²

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

Typical Operating window**Typical Efficiency over load****Typical Power factor over load****Typical THD over load**

An optional cable clamp is available. This cable clamp can be snapped onto the ECG and thus converts it into an ECG suitable for independent installation.



L	145mm
L1	88mm
B	43mm
B1	34mm
1	29.5mm

Table 1 - Rated output power and current sets				
I _{out} (mA)	800	900	950	1050
U _{min} [V]	25	25	25	30
U _{max} [V]	42	42	42	42
P _{min} [W]	20	22.5	23.8	31.5
P _{max} [W]	33.6	37.8	39.9	44.1
T _a [°C]	50	50	50	45
T _c [°C]	80	80	80	80
Line Current, nominal@230V mA	190	210	220	240
Max Power Loss@230V [W]	3.7	4.2	4.4	4.9
Input Power @230V [W]	37.3	42.0	44.3	49

Pin1	Pin2	Current
ON	ON	1050
ON	OFF	950
OFF	ON	900
OFF	OFF	800

Current selection by DIP-switch

Standards

Safety: IEC 61347-1, IEC 61347-2-13

Performance: IEC 62384

Radio interference: CISPR 15

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-3-3

IEC 61547

Product name	EAN10	EAN40	Pieces / box
OT FIT 40/220-240/1A0 CS	4052899435650	4052899435667	20
OT Cable Clamp D-style	4052899077904	4052899077911	40

Manufacturer's address:

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