

OT FIT 35/220–240/700 CS L AP

Constant Current LED Power Supply

500mA - 600mA - 650mA- 700mA

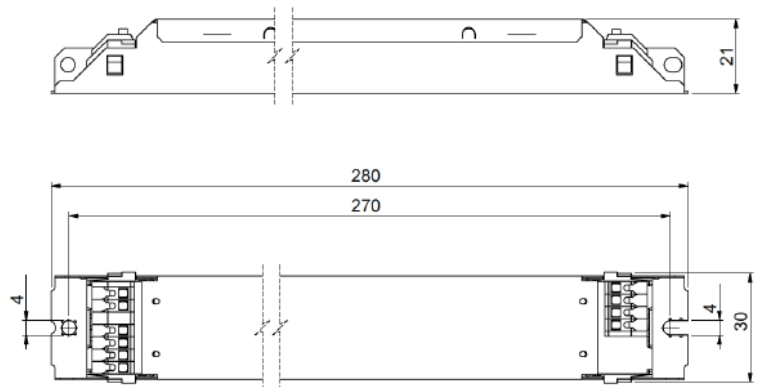
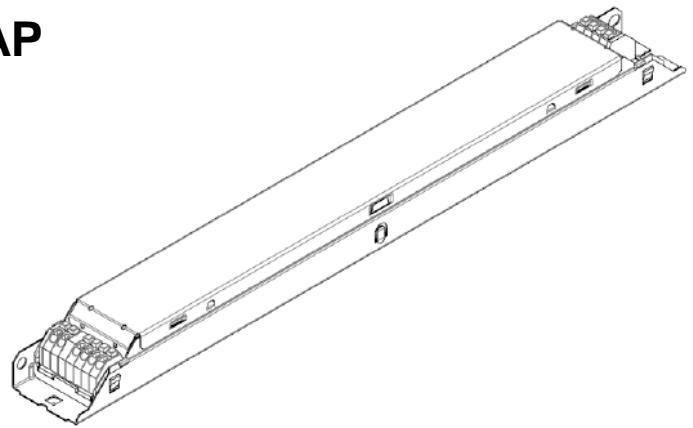
OPTOTRONIC® LED Power Supply is the reliable choice for linear and area fixtures for office - industrial - shop lighting

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: 500/600/650/700mA
- Output voltage : 27V_{DC} – 54V_{DC}
- Output power : 13.5W – 37.8W
- Input voltage: 220 – 240V_{AC}
- Ambient temp range t_a : -20 to +50°C
- Low ripple, low THD
- Fixed output (i.e. no dimming)
- Typ. Efficiency : 87%
- SELV
- 50'000 hours lifetime

Electrical Specifications

Item	Value	Unit	Remarks	
INPUT	Nominal voltage	220 – 240	V _{AC}	
	Nominal frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V _{AC}	Permitted voltage range
	DC voltage range	NA	V	
	Maximum voltage	300	V	1hrs
	Nominal current	200	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	88	%	Full load, 230 V, 50 Hz, typical / see graphs
	Stand-by power	NA	W	
	Power loss	5.6	W	at 230V, Input power 44 W max. Refer to Table 1 for details
	Protection class	I		
	Inrush current	<16	A	t _{width} = 100 µs typical (measured at 50% I _{peak})
	Max. units per circuit breaker	B16: 32; B10: 20		
Leakage current	< 0.7	mA	Output floating	
OUTPUT	Nominal voltage range	27 – 54	V _{DC}	Refer to Table 1 for details
	Maximum voltage	60	V _{DC}	Open circuit
	Nominal current range	500/600/650/700	mA	
	Current accuracy	+/- 7.5	%	
	Current ripple	< 5	%	Ripple / average @ 100 Hz
	Nominal power range	13.5 – 37.8	W	Partial Load. Refer to Table 1 for details
	Maximum power	37.8	W	T _a =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 _a	-20 ... +50	°C	Refer to Table 1 for details
	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	-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 _{max} = 75°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

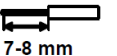
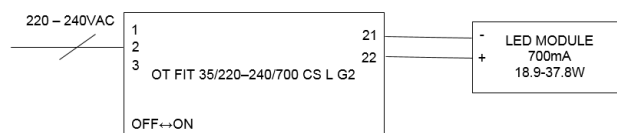
NA

Wiring Diagram

Terminal: Push in terminals
 Max. cable length - system: 2 m
 Geometry (l x b x h): 280 x 30 x 21 mm
 Weight: 166g

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.

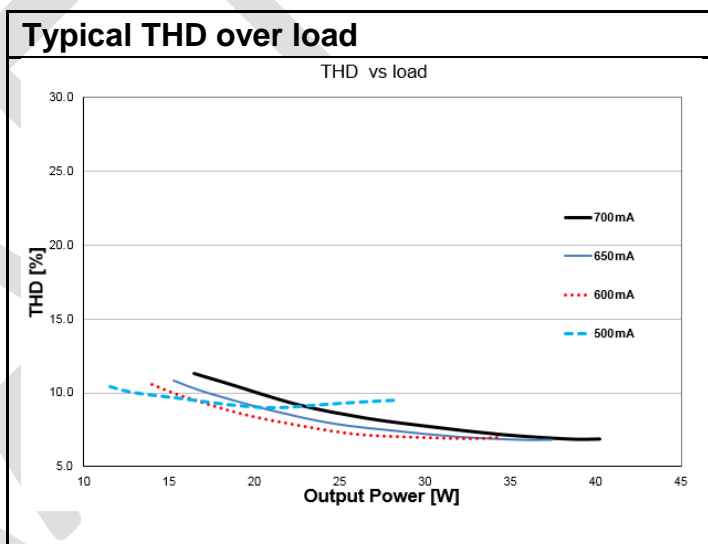
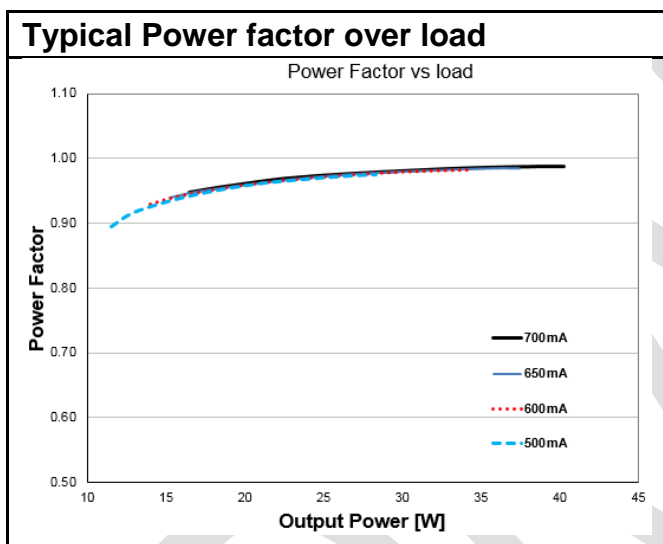
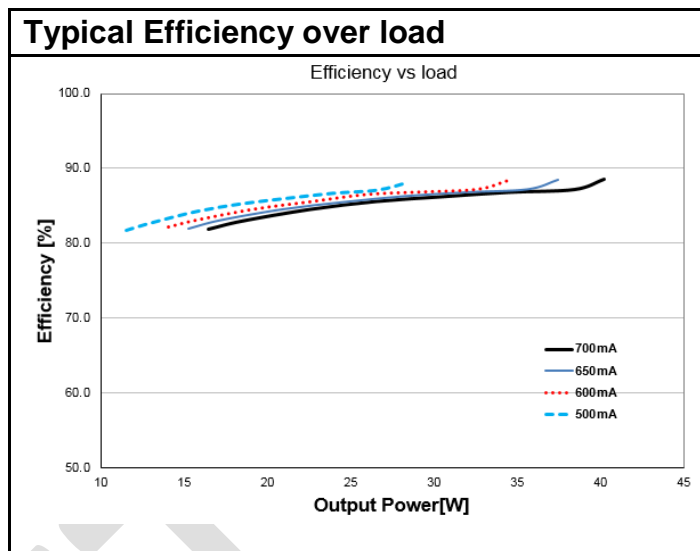
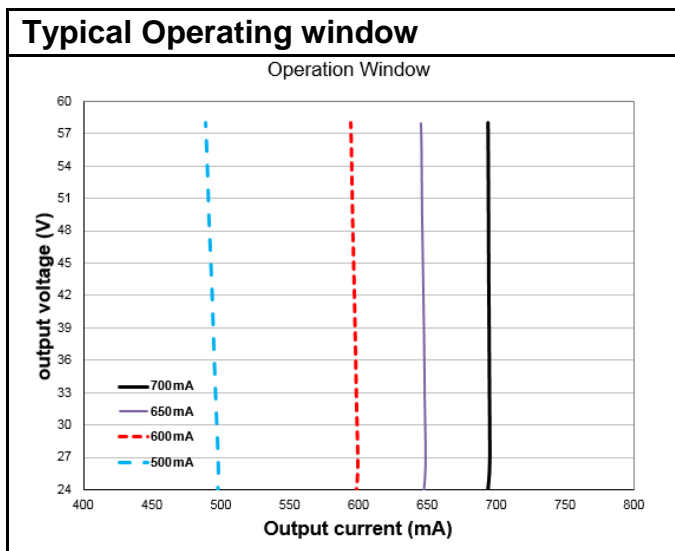


Table 1 - Rated output power and current sets

Parameter	500	600	650	700
I _{out} (mA)	500	600	650	700
U _{min} [V]	27	27	27	27
U _{max} [V]	54	54	54	54
P _{min} [W]	13.5	16.2	17.55	18.9
P _{max} [W]	27	32.4	35.1	37.8
T _a [°C]	50	50	50	50
T _c [°C]	75	75	75	75
Line Current, nominal@230V mA	150	170	190	200
Max Power Loss@230V [W]	4.0	4.8	5.2	5.6
Input Power @230V [W]	31	38	41	44

Pin1	Pin2	Current
ON	ON	700
ON	OFF	650
OFF	ON	600
OFF	OFF	500

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 35/220–240/700 CS L G2	TBD	TBD	20

Manufacturer’s address:

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Disclaimer (Engineering Samples)

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