

OT FIT 65 / 220 – 240 / 350 D CS L

Constant Current LED Power Supply

200mA - 250mA - 300mA- 350mA

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

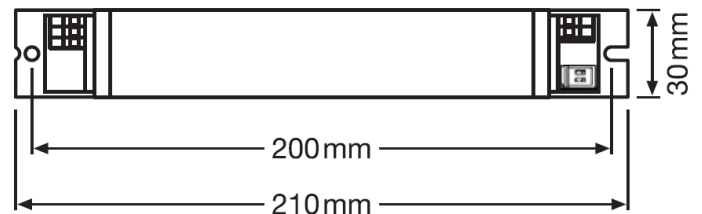
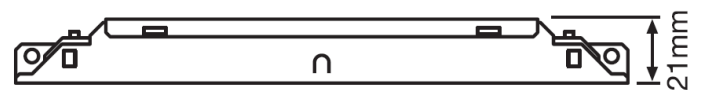
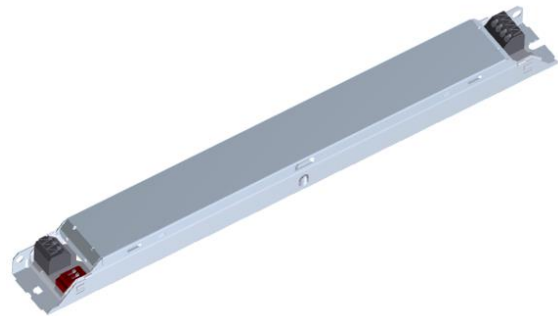
Benefits

Flexible with 1 driver offers 4 output currents;
 High quality light with very low ripple;
 Very high efficiency up to 93%
 Enable slim fixture design with flat 21mm height metal housing
 Long lasting and high reliability
 Non isolated driver

Applications

Linear and area lighting
 Office – industrial - shop

Approval marks (under preparation if not on label)

**Product features**

- Output current: 200/250/300/350mA
- Low THD < 10% @ full load
- Output power : 16 W – 66.5W
- Input voltage: 220 – 240V_{AC}
- Ambient temp range t_a : -25 to +50°C
- Wide output voltage range
- Low ripple < 5%
- Very high efficiency up to 93%
- Fixed output (no dimming)
- 5 years guarantee

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	1hr
	Nominal current	250	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	93	%	Full load, 230 V, 50 Hz, typical / see graphs
	Stand-by power	NA	W	
	Power loss	5	W	at 230V, Input power 71.5 W max. Refer to Table 1 for details
	Protection class	I		
	Inrush current	TBD	A	t _{width} = 100 μs typical (measured at 50% I _{peak})
	Max. units per circuit breaker	B16: TBD; B10:TBD		
Leakage current	< 0.7	mA	Output floating	
OUTPUT	Nominal voltage range	70 – 220	V _{DC}	@ 200/250mA output current, Refer to Table 1 for details
	Maximum voltage	70 – 190	V _{DC}	@ 300/350mA output current, Refer to Table 1 for details
	Nominal current range	200/250/300/350	mA	Open circuit
	Current accuracy	+/- 5	%	at 220-240Vac nominal voltage
	Current ripple	< 5	%	Full load, Ripple / average @ 100 Hz
	Nominal power range	16 – 66.5	W	Partial Load. Refer to Table 1 for details
	Maximum power	66.5	W	T _a =50°C, Refer to Table 1 for details
	Galvanic isolation	Non-SELV		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	-25 ... +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	-25 ... +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 _{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 < 250Vrms

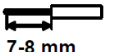
Output under voltage

NA

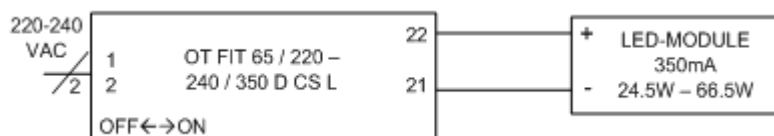
Wiring Diagram

Terminal: Push in terminals
 Max. cable length : 2 m
 Geometry (l x b x h): 210 x 30 x 21 mm
 Weight: 140g

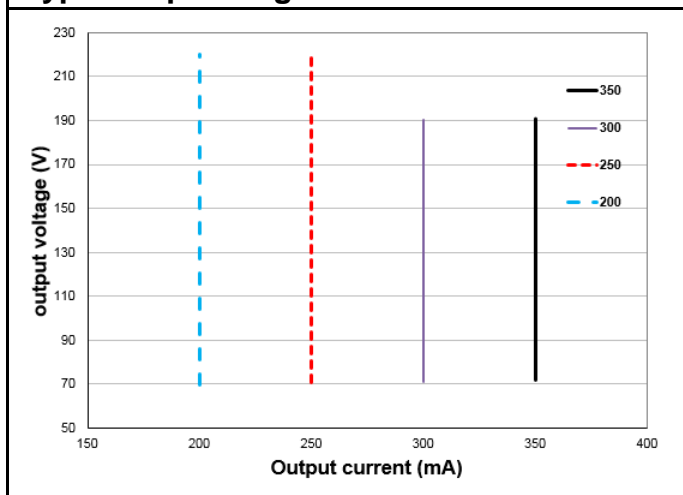
Wire preparation:

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

 7-8 mm

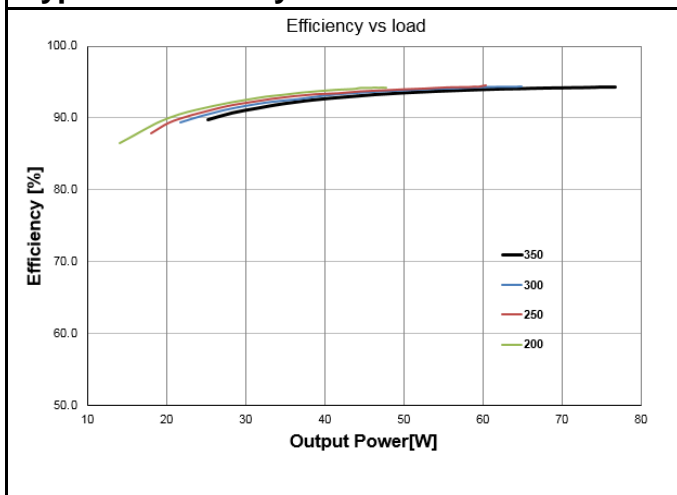
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.



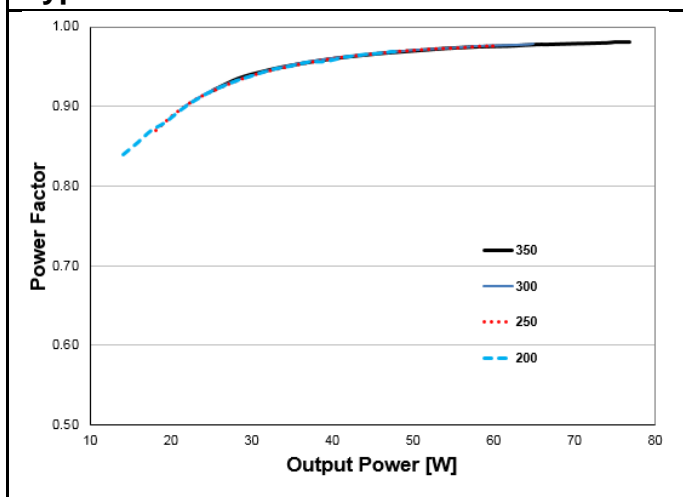
Typical Operating window



Typical Efficiency over load



Typical Power factor over load



Typical THD over load

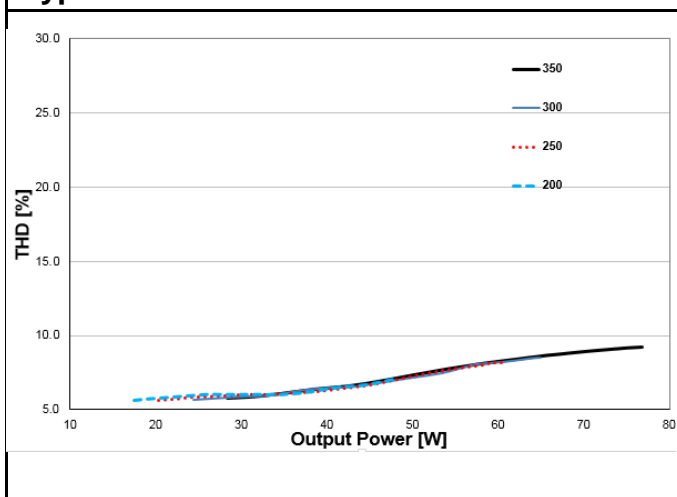


Table 1 - Rated output power and current sets

	200	250	300	350
I_{out} (mA)	200	250	300	350
U min [V]	70	70	70	70
U max [V]	220	220	190	190
P min [W]	14	17.5	21	24.5
P max [W]	44	55	57	66.5
T_a [°C]	50	50	50	50
T_c [°C]	75	75	75	75
Line Current, nominal@230V mA	250	300	320	350
Max Power Loss@230V [W]	3.3	4.1	4.3	5
Input Power @230V [W]	47.3	59.1	61.3	71.5

Pin1	Pin2	Current
ON	ON	350
ON	OFF	300
OFF	ON	250
OFF	OFF	200

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 65 / 220 – 240 / 350 D CS L	4052899531451	4052899531468	20

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