Light is OSRAM



Product data sheet: OT FIT 35/220-240/700 CS L G2

Constant Current LED Power Supply SELV

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 with 4 output currents High quality of light with very low ripple Small, slim white metal housing 30x21mm Long lasting and high reliability

Applications

Linear and area lighting Office – industrial – shop

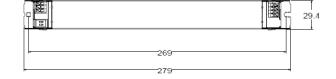
Approval marks and Symbols

CE, VDE-ENEC, VDE-EMC, RCM, ¹¹⁰, EL In preparation, if not already printed on product label

Product Features

- Output currents: 500/600/650/700 mA
- Output voltage: $25V_{DC} 51V_{DC}$
- Output power: 13.5 W 35.7 W
- Typ. Efficiency: 86%
- Suitable for emergency lighting

- Low ripple, Low THD
- Overload & -temperature protection
- 100`000 h lifetime at t_c = 65°C
- T_c max = 80°C
- Wide t_a range -25...+50°C



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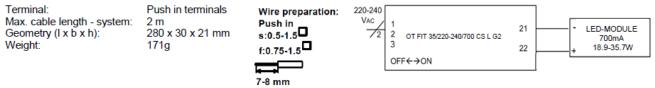
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Electrical Specifications

	ltem	Value	Unit	Remarks
	Nominal Voltage	220 - 240	V _{AC}	
	Nominal frequency	0/ 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 - 276	V	DC
	Maximum voltage	300	V _{AC}	1 h
	Nominal current	190	mA	230V, Refer to table 1 for details
¥	Total Harmonic Distortion (THD)	< 10	%	Full load, 230 V, 50 Hz / see graphs
Input	Power factor	0.98		Full load, 230 V, 50 Hz / see graphs
	Efficiency	86	%	Full load, 230 V, 50 Hz / typical/ see graphs
	Stand-by power	NA	W	
	Power losses	5.8	W	At 230 V Input power 41.5 W max. refer to table 1 for details
	Protection class	l		Suitable for class I and II luminaires
	Inrush current	< 16	А	Th = 100 µs typical (measured at 50% lpeak)
	Max. units per circuit breaker	B16: 34 B10: 21		Grid impedance 1000mOhm
	Leakage current	< 0.5	mA	Through PE, output floating
	Nominal voltage range	27 – 51	V_{DC}	Refer to table 1 for details
	Maximum voltage	60	Vdc	Open Circuit
÷	Nominal current range	500/600/650/700	mA	
Output	Current accurancy	+/- 7.5	%	
Ē	Current ripple	< 5	%	Ripple / average @ 100 Hz
ō	Nominal power range	13.5 – 35.7	W	Partial Load. Refer to table 1 for details
	Maximum power	35.7	W	Refer to table 1 for details
	Galvanic isolation	SELV		Output to mains – touch current < 0.5 mA
	Ambient temperature range t _a	-25+50	°C	Refer to table 1 for details
÷	Maximum case temperature $t_{\rm c}$	80	°C	Measured on t_c point indicated of the product label
e la	Max. case temp. in fault condition	110	°C	
Ĕ	Storage temperature range	-25+80	°C	Cool down before operating
ū	Relative humidity	585	%	Not condensing
Environment	Surge transient protection	1/2	kV	L/N /LN/PE acc to IEC 61547
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50`000	hrs	t _c = 80°C, 10% failure rate

Protections

Over temperature Input overvoltage Automatic, reversible Maximum allowed input voltage 300V AC/ 1hr Overload Output overvoltage Non-reversible, mains switchover is needed to re-power the load Yes, limitation of Output voltage < 60V No load Output under voltage Yes, switches off NA Short-circuit LED load protection Non-reversible, mains switchover is needed to re-power the load NA Wiring Diagram

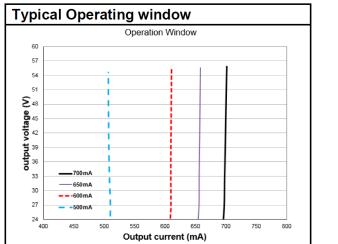


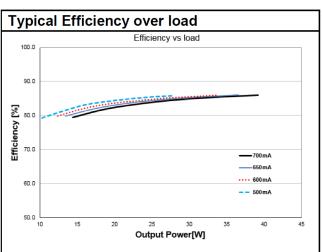
Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

DIPswitches provide basic insulation only.

Therefore changes in the position of the DIPswitches should be realized only in state of zero potential.

DIPswitches must be installed touch protected inside the luminaire.





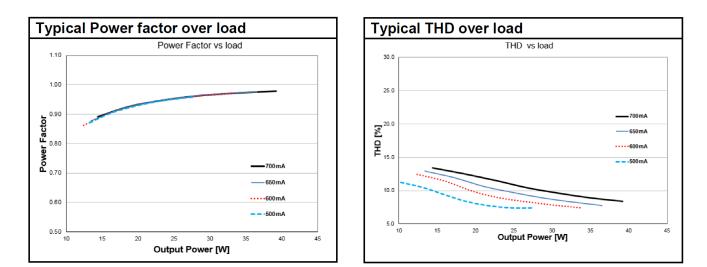


Table 1 - Rated output power and current sets					
lout (mA)	500	600	650	700	
U min [V]	27	27	27	27	
U max [V]	51	51	51	51	
P min [W]	13.5	16.2	17.6	18.9	
P max [W]	25.5	30.6	33.2	35.7	
Ta [°C]	50	50	50	50	
Tc [°C]	80	80	80	80	
Line Current, nominal@230V mA	140	165	180	190	
Max Power Loss@230V [W]	4.3	5.1	5.5	5.8	
Input Power @230V [W]	29.8	35.7	38.7	41.5	

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

Current selection by DIP-switch

Remarks

- Input over voltage protection: mains up to 300 Vac, for one hour maximum, will not destroy both the unit and the load; shut down
 of load might occur in this condition.
- **Dipswitch:** don't change the current by Dipswitch during driver operation.
- Output short circuit / undervoltage protection: shut down of load might happens if V_out is out of operating range
- Output overload protection: the unit is intrinsically protected against over loading because the output voltage is limited.
- Output over voltage protection: shut down of load happens if V_out exceeds 60V
- **No load operation:** the unit automatically switches off. Mains switchover is needed to re-power the load.
- Over temperature protection: the unit is protected against temporary overheating by automatic reduction of the output current when tc > 80°C
- Switchover time: lower than 0.5 s, both AC and DC mains.
- 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 IEC 61347-2-13 Annex J.
- Emergency Escape Lighting: this LED power supply is suitable for emergency escape lighting systems acc. to EN 50172

Standards

IEC 61347-1 IEC 61347-2-13 IEC 62384	Product name	EAN10	EAN40	Pieces / box	
IEC 61000-3-2	OT FIT 35/220-240/700 CS L G2	4052899522534	4052899522541	20	
IEC 61000-3-3					
IEC 61547					

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