OT FIT 35/220-240/700 CS L

Constant current LED driver 500 mA - 600 mA - 700 mA

The reliable choice for the essential lighting: based on the well tested Quicktronic® core and flat metal housing 30 x 21 mm fits in all linear and area light fixtures for office - industrial - shop lighting.

Benefits

Three fixed selectable output currents
Easy current selection using a wire bridge
Long lasting and high reliability
Slim metal housing
Double output connectors (parallel connection)
Suitable for emergency lighting units

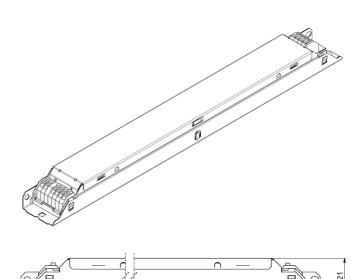
Applications

Linear and area lighting Office – industrial - shop

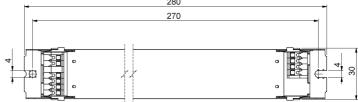
Approval marks



In preparation, if not already printed on product label







Housing material: metal, white painted.

Product Features

- 3 output currents 500/600/700 mA
- Default output current is 700 mA
- Wire bridge to select the current
- SELV equivalent 27 54 V
- Output power up to 35 W
- Mains voltage 220 240 V
- Suitable for emergency lighting

- Overload protection
- Overtemperature protection
- Load hot plug protection
- 100'000 h lifetime at t_c = 65°C
- Case temperature up to 75 °C
- Wide t_a range -20 +50 °C
- 5 years guarantee

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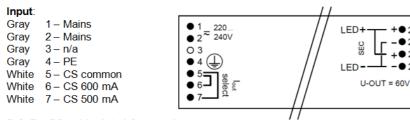
Electrical Specifications

	Item	Value	Unit	Remarks
TUPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 - 60	Hz	Incl. DC or pulse DC
	AC voltage range	198 – 264	V	·
	DC voltage range	176 – 276	V	DC or pulse DC
	Maximum voltage	320	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.20	Α	
	Total Harmonic Distortion (THD)	< 10	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	> 86	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Power losses	5.8	W	Maximum, full load
	No-load power	n/a	W	Load switching on output side is safe but not permitted
	Stand-by power	n/a	W	Unit is not dimmable/controllable
	Protection class	I		PE can be connected to terminal or housing
	Inrush current	53	A pk	Max, th = 230 μ s
	Max. units per circuit breaker	B16: 28; B10: 17		I max = 53 A Th = 230 μs
	Leakage current	< 0.5	mA	Through PE, output floating
OUTPUT	Nominal voltage range	27 – 54	V	
	Maximum voltage	60	V	No load protection put output down to roughly 12 V
	Nominal current range	500 / 600 / 700	mΑ	700 mA default (terminals 5-6-7 open)
	Current accuracy	+/- 10	%	
	Current ripple	< 10	%	Ripple / average @ 100 Hz, full load
	Nominal power range	13.5 – 35	W	
	Maximum power	35.6	W	
	Galvanic isolation	SELV equivalent		Output to mains - Touch current < 0.5 mA
DIMMING	Dimming control	no		Not dimmable
	Dimming range	n/a		
	Dimming technique	n/a		
	Frequency	n/a		
	Galvanic isolation	n/a		
ENT	Ambient temperature range t _a	-25+50	°C	
	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+75	°C	
₹	Relative humidity	5 85	%	Not condensing
ENVIRONMENT	Surge transient protection	1 2	kV	L/N LN/PE acc to. EN 61547-5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000 50'000		t _c = 75°C, 0.2% / 1'000 h failure rate, 14 h ON / 10 h Stan-by per day
	Expected lifetime	100'000	h	$t_c = 75^{\circ}\text{C}$, 0.2% / 1 000 h failure rate, 14 h ON / 10 h Stan-by per day $t_c = 65^{\circ}\text{C}$, 0.1% / 1'000 h failure rate, 14 h ON / 10 h Stan-by per day
		100 000		te = 00 C, 0.1707 1 000 il fallule fate, 14 il Oly 10 il Stall-by per day

Protections

Overtemperature, Overload, No load, Short-circuit, Input overvoltage, Output overvoltage, Output undervoltage See remarks on page 4.

Wiring Diagram



Output:

+ ● 23-4

- ● 24

21 – LED + Red Black 22 - LED -Red 23 - LED + Black 24 - LED -

21 & 23 internally connected 22 & 24 internally connected

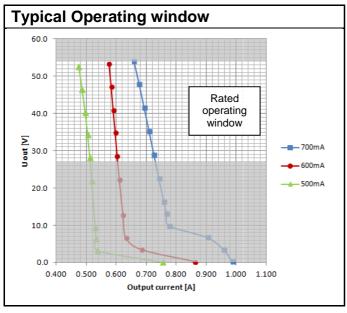
Load wires length: 2 m max CS wires length: 0.3 m max

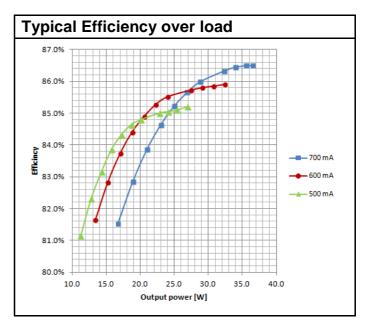
5, 6, 7 - CS not isolated from mains Caution for CS wire bridge:

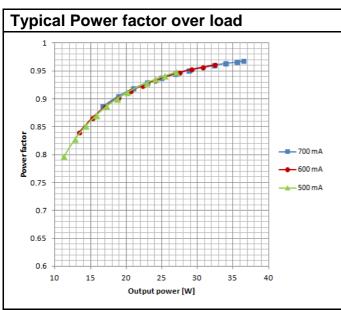
mandatory use of basic insulated wire suitable for mains voltage.

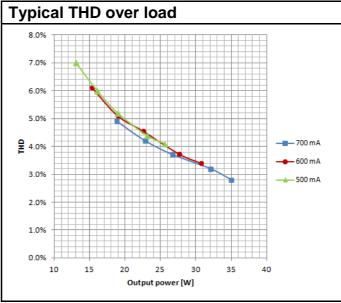
Connectors type: WAGO 250; Wires cross section both flexible and solid: 0.5 - 1.5 mm², peeling length 8.5 - 9.5 mm

Two or more units cannot be connected together on secondary side with any or more of the 21 ... 27 terminals.









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Remarks

- Input over voltage protection: mains up to 320 Vac, for two hours maximum, will not destroy both the unit and the load; shut down of load might occur in this condition.
- Output short circuit protection: short circuit current is limited to approx. 1 A without damage to the unit, for unlimited time. See typical operating window graph for details. Be sure the load is designed to withstand the short circuit current as well.
- 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 U out exceeds 54V; mains switchover is needed to restart the unit. To avoid unexpected power off, be sure the LED module operating voltage never exceed 54, including cold start condition.
- Output under voltage operation: the unit is not damaged if the load voltage is lower than 27V, but the load current increases up to the short circuit value, see typical operating window graph for details. Be sure the load is safely operated if this event might occur.
- No load operation: the unit is not damaged in this condition; the output voltage is lower than 2V, which enables a safe LED load connection, but mains switchover is needed to power the load.
- Over temperature protection: the unit is protected against temporary overheating by automatic reduction of the output power.
 If to exceed 85°C approx. the output current is reduced to the lowest nominal value (500 mA);
 If to exceed 105°C approx. the load is shut down;
 - The protection is automatically reversible, without mains switchover.
- Touch current: lower than 0.2 mA, according to EN 60598-1 ann. G and EN 61347-a ann. A
- 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 light fixtures acc. to EN 60598-2-22.
- Caution for CS wire bridge: 5, 6, 7 terminals not isolated from mains; mandatory use of basic insulated wire suitable for mains voltage.

Standards

EN 61347-1 EN 61347-2-13 EN 55015 EN 61547 EN 61000-3-2 EN 62384

Ordering information

Product name	Туре	EAN10	EAN40	NAED	Pieces / box
OT-FIT 35/220-240/700 CS L	AA55838	4052899032828	4052899032835	n/a	20

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