



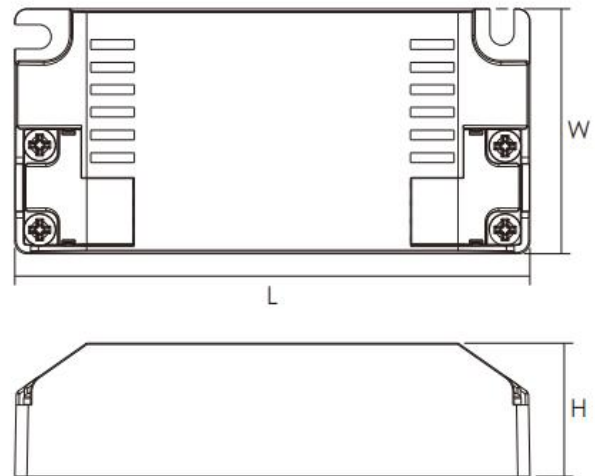
SWITCH TO BRIGHTER FUTURE

Product data sheet: AS-10-xxxTF

TRIAC Dimming LED Driver

Features

- Independent design
- Dimmable constant current driver
- Analogue flicker-free
- Dimming with leading edge or trailing edge dimmer
- Smooth dimming compatible with most dimmer
- Dimming range 1...100%
- Captured terminal screws
- Protections: opencircuit, shortcircuit, overload, overtemperature
- SELV equivalent
- Suitable for class I & II luminaires
- Protection class II



Applications

- Office
- Shop
- Hospitality
- Public areas

Approbations & Certifications

TUV, CB, CE, ENEC

Housing properties

- Housing material: plastic, white.
- Type of protection IP20

Electrical Specifications

Type		Unit	AS-10-200TF	AS-10-250TF	AS-10-350TF	AS-10-500TF	AS-10-700TF
INPUT	Nominal voltage	V	220 – 240				
	Nominal frequency	Hz	50 / 60				
	AC voltage range	V	198 – 264				
	DC voltage range	V	176 - 250				
	Nominal current	A	0.07				
	THD (Full load)	%	≤ 25				
	Power factor(Full load)		0.95				
	Efficiency(Full load)	%	80	79	78	76	74
	Turn on time	ms	≤ 500				
	No load	W	N/A				
	Protection class		II				
	Inrush current(Cold start)	A pk	5 (th = 100 μs)				
	Max.units per circuit breaker		B10:140 B13:182 B16:224 B20:280 C10:142 C13:185 C16:228 C20:285				
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OUTPUT	Nominal voltage range	V	25 – 50	20 – 40	14 – 29	10 – 20	10 – 14
	Maximum voltage(Open Circuit)	Vdc	≤ 60	≤ 48	≤ 35	≤ 25	≤ 22
	Nominal current	mA	200	250	350	500	700
	Current accuracy	%	+/- 6	+/- 5	+/- 5	+/- 5	+/- 5
	Current ripple 100Hz	%	+/- 5				
	Pst LM		≤ 1				
	SVM		≤ 0.4				
	Nominal power range	W	5 – 10				
	Maximum power	W	10				
	Galvanic isolation		SELV				
	Galvanic isolation		SELV				
ENVIRONMENT	Ambient temperature range ta	°C	-20 ...+45				
	Maximum case temperature tc	°C	85				
	Max. Case temp. In fault condition	°C	110				
	Storage temperature range	°C	-20 ...+70				
	Relative humidity	%	5 ... 85(Not condensing)				
	Surge transient protection	kV	0.5 1 (L/N LN/PE acc to. EN 61547 Clause 5.7)				
	Environmental rating		Independent				
	IP rating		IP 20				
	Mains switching cycles		> 100,000				
	Expected lifetime	h	50,000 (0.2% / 1'000 h failure rate)				

*All parameters NOT specially mentioned are measured at 230VAC input ,rated current and 25°C of ambient temperature

Protections

Over temperature

Yes

Overload

Yes

No load

Yes

Short-circuit

Yes

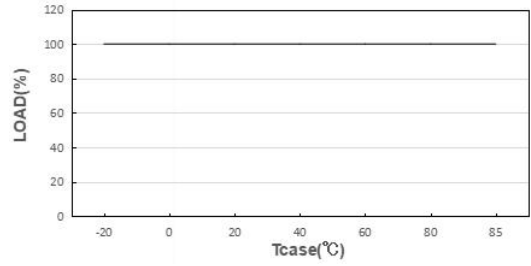
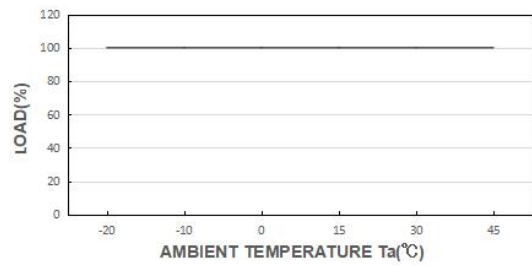
Input overvoltage

Maximum allowed input voltage 264VAC

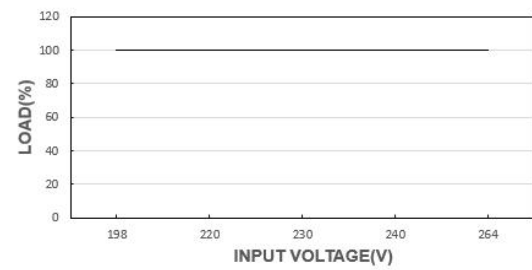
Output overvoltage

Yes

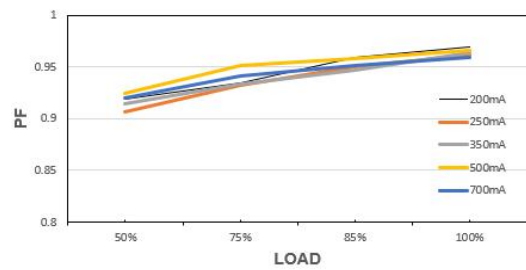
OUTPUT LOAD vs TEMPERATURE



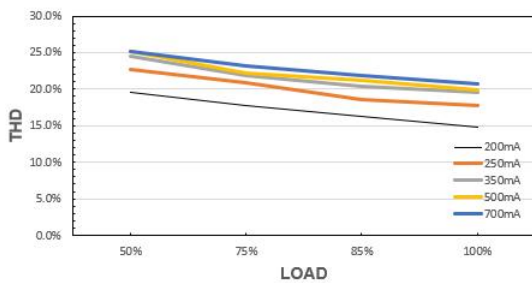
STATIC CHARACTERISTIC



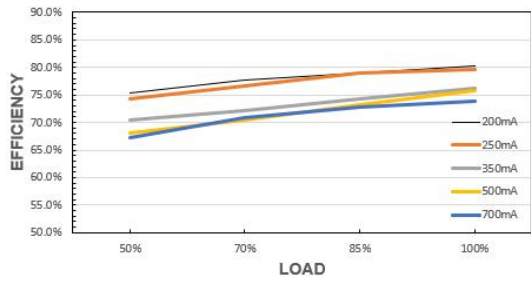
POWER FACTOR (PF) CHARACTERISTIC



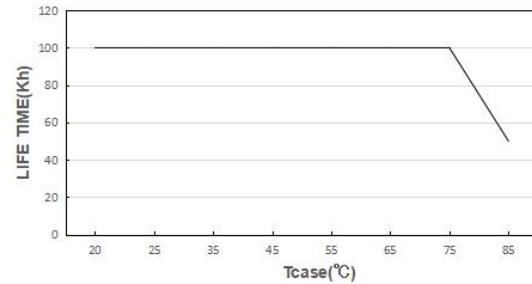
TOTAL HARMONIC DISTORTION (THD)



EFFICIENCY vs LOAD



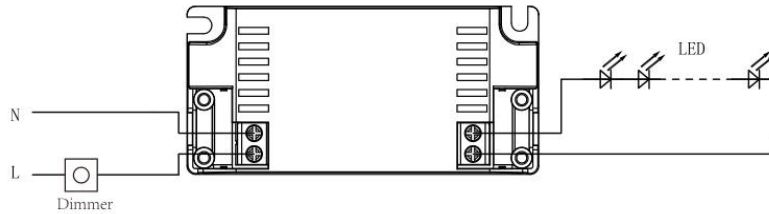
LIFE TIME



*The graph is for reference only, and the detailed values refer to the parameter table

Wiring Diagram

Terminal:	Screw
Max. cable length-system:	2m
Dimensions(LxWxH):	85 x 40.4 x 22 mm
Mounting hole spacing :	76.4 mm
Weight:	30 ± 5 g



PRI

Cable cross-section:	0.75-1.5□
Stripping:	6mm

SEC

Cable cross-section:	0.5-1.5□
Stripping:	6mm

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

Remarks

- **Touch current:** lower than 0.7 mA, according to EN 60598-1 annex. G and EN 61347-1 annex A

Standards

EN 61347-1
EN 61347-2-13
EN 62384
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 60598-1
EN 50581
IEE1789
(EU) 2019/2020

Manufacturer's address:

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www.actec.com