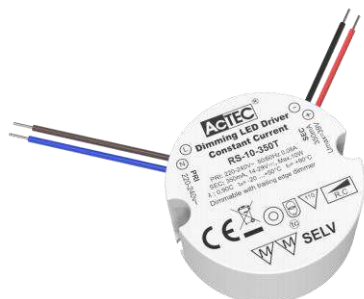


Triac Dimming LED Driver

RS-10-xxxT



Features



- Super compact design for built-in use
- Dimmable constant current driver
- Dimmable with trailing edge dimmer
- Smooth dimming compatible with most dimmer
- Dimming range from 10...100%
- Primary and secondary sides come with leads
- Protections: opencircuit, shortcircuit, overload, overtemperature
- DC input compatible (dimming disable)
- SELV equivalent
- Suitable for class I&II luminaires



Selection Guide

Model No.	Nominal Voltage (V)	Nominal Current (A)	Power Factor (λ)	THD Full load (%)	Max. Output (W)	Output Current (mA)	Output Voltage (V)	No Load Voltage (V)	Efficiency Full Load (%)
RS-10-150T	220-240	0.06	0.90C	25	6.3	150	21-42	54	77
RS-10-200T	220-240	0.08	0.90C	25	8.4	200	21-42	54	77
RS-10-250T	220-240	0.08	0.90C	25	10	250	20-40	52	75
RS-10-300T	220-240	0.08	0.90C	25	9	300	15-30	40	76
RS-10-350T	220-240	0.08	0.90C	25	10	350	14-29	39	76
RS-6-700T	220-240	0.06	0.90C	25	6	700	4-9	19	67

Input Parameters

Parameter	Condition	Min.	Typ.	Max.	
Input Voltage Range	AC Input	198VAC	--	264VAC	
	DC Input	176VDC	--	250VDC	
Rated Input Frequency	AC Input	--	50/60Hz	--	
No-load Power Consumption		--	--	N/A	
Standby Power Consumption		--	--	N/A	
Inrush Current	Cold Start@230V	5A/300us			
Max.units Per Circuit Breaker					

Output Parameters

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	Full Load@230V, output current=150mA	--	±10%	±12%
	Full Load@230V, output current=200mA	--	±8%	±10%

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	Full Load@230V, output current=250/300/350/700mA	--	±5%	±8%
Ripple & Noise	Low Frequency < 120Hz, Full Load@230VAC	--	--	10%
Pst LM		--	--	1
SVM		--	--	0.4
Galvanic Isolation	SELV			
Short-Circuit Protection (SCP)	Re-power on to Recover If Fault Is Removed			
Over-Voltage Protection (OVP)	Auto-Recovery If Fault Is Removed			
Over-Current Protection (OCP)	Auto-Recovery If Fault Is Removed			

General Parameters

Parameter	Condition	Value
Ambient Temperature Range t_a	$P_{out} \leq 8W$	-20...+50 °C
	$8W \leq P_{out} \leq 10W$	-20...+45 °C
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	90 °C
Max.Case Temp.In Fault Condition		110 °C
Storage Temperature Range		-20...+70 °C
Relative Humidity	Non Condensing	5...85%
Withstand Voltage	I/P-O/P	3.75kVAC, I leakage < 5mA, 60s
Surge Transient Protection	L-N, L/N-PE	1kV, 2kV
Environmental Rating		Indoor
IP Rating		IP20
Mains Switching Cycles		> 100,000
Expected Lifetime	$t_{cmax}=90^\circ C$, 0.2%/1000h failure rate	50,000h

Dimming Parameters

Dimmable	Yes
Dimming control	Trailing edge
Dimming range	10-100%

Physical Parameters

Housing Material	PC
Type of connection	Cable
Dimensions (LxWxH)	Φ42x20mm
Mounting hole spacing	39.6mm
Weight	48g ± 5g

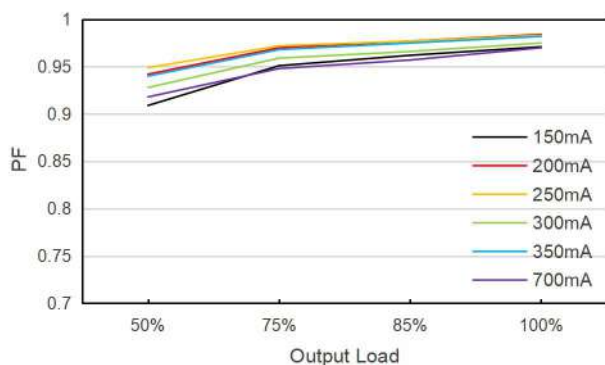
Standards

Safety Standards	EN 61347-1, EN 61347-2-13
EMC Standards	EN55015, EN61000-3-2, EN61000-3-3, EN 61547

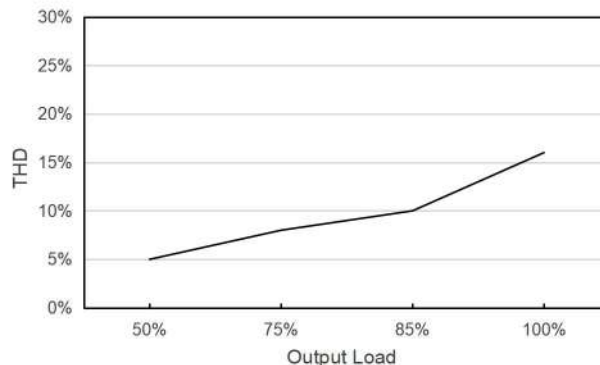
*ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25 °C of ambient temperature.

Product Characteristic Curve

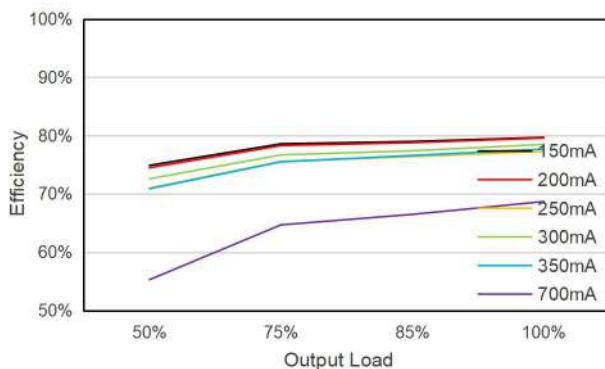
Power Factor vs Load



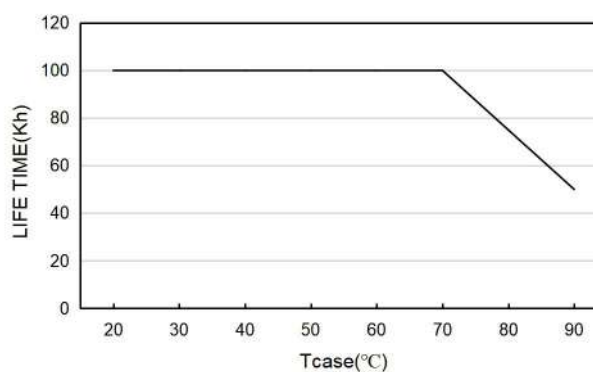
Total Harmonic Distortion vs Load



Efficiency vs Load



Life Time vs Case Temperature



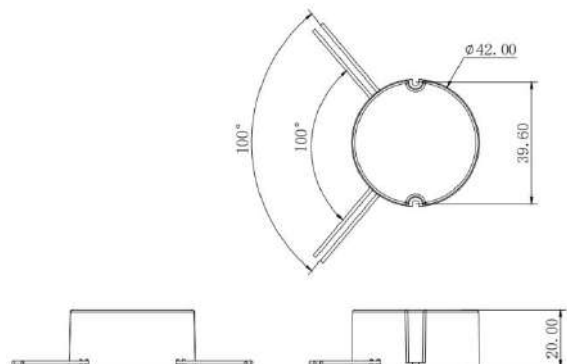
Triac Dimming LED Driver

RS-10-xxxT

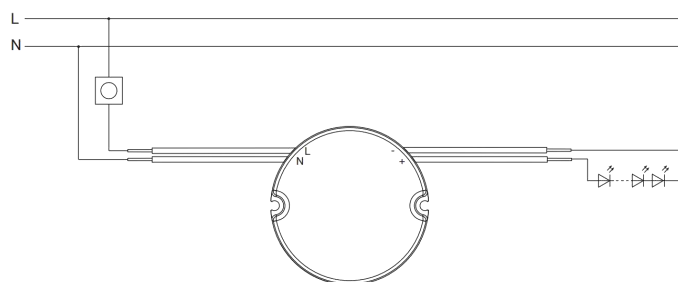


Appearance of Size

Dimension Drawing(mm)



Wiring Diagram



PRI

Wire: VDE 7022 0.5mm²

Length: 180±10mm

SEC

Wire: VDE 7902 0.3mm²

Length: 180±10mm

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