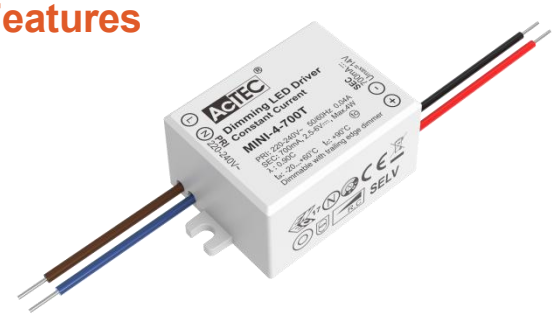
TRIAC Dimming Constant Current LED Driver

MINI-4-xxxT

Features



- Super compact design for built-in use
- Flicker-free, complying with CE Erp directive
- 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
- Seal with glue, the operating temperature up to 60°C
- SELV equivalent
- Suitable for protection class I & II luminaires

Selection Guide

Model No.	Nominal Voltage (V)	Nominal Current (A)	Power Factor (λ)	THD (%)	Max. Output (W)	Output Current (mA)	Output Voltage (V)	No Load Voltage (V)	Efficiency Full Load (%)
MINI-4-100T	220-240	0.04	0.90C	25	4.2	100	21-42	49	78
MINI-4-200T	220-240	0.04	0.90C	25	4	200	10-20	29	74
MINI-4-260T	220-240	0.04	0.90C	25	4	260	8-16	24	73
MINI-4-300T	220-240	0.04	0.90C	25	4	300	7-13	22	72
MINI-4-350T	220-240	0.04	0.90C	25	4	350	6-12	20	73
MINI-4-500T	220-240	0.04	0.90C	25	4	500	4-8	16	69
MINI-4-700T	220-240	0.04	0.90C	25	4	700	2.5-6	14	66

Note: 1. The product picture is for reference only. For details, please refer to the actual product.

2. All parameters NOT specially mentioned are measured at 25°C of ambient temperature, 230VAC input, 50Hz, full load and after warm-up.

Input Parameters

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	AC Input	198VAC	230VAC	264VAC
	DC Input (Disabled under dimming)	N/A	--	N/A
Input Frequency Range	AC Input	47Hz	50/60Hz	63Hz
No-load Power Consumption	@230VAC, 50Hz	--	--	N/A
Inrush Current	Cold start@230VAC, 50Hz, full load	5A/100us		
Max.units Per Circuit Breaker*	B10	140		
	B13	182		
	B16	224		
	B20	280		
	C10	166		
	C13	216		
	C16	266		
	C20	333		

Note: *These are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference. Actual values may differ due to used circuit breaker types and installation environment.

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Output Parameters

Parameter	Condition		Min.	Typ.	Max.
Output Accuracy	@230VAC, 50Hz, full load	Iout=100mA	--	±12%	--
		Others	--	±8%	--
Ripple & Noise*	Low frequency<120Hz,@230VAC, 50Hz, full load		--	--	10%
Pst LM	@230VAC, 50Hz, full load		--	--	1
SVM	@230VAC, 50Hz, full load		--	--	0.4
Galvanic Isolation	Isolated				
Over-Temperature Protection (OTP)	N/A				
Short-Circuit Protection (SCP)	Auto-Recovery If Fault Is Removed				
Over-Voltage Protection (OVP)	Auto-Recovery If Fault Is Removed				

Note: *Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.

General Parameters

Parameter	Condition	Value
Ambient Temperature Range t_a		-20 ... +60°C
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	90°C
Max.case Temp.In Fault Condition		N/A
Storage Temperature Range		-20...70°C
Relative Humidity	Non condensing	5...85%
Surge Transient Protection	L-N|L/N-PE	1.5|2kV
Environmental Rating		Indoor
IP Rating		IP20
Mains Switching Cycles		>100,000
Expected Lifetime	t_{cmax}=90°C, 0.2%/1,000h failure rate	50,000h

Dimming Parameters

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

Physical Parameters

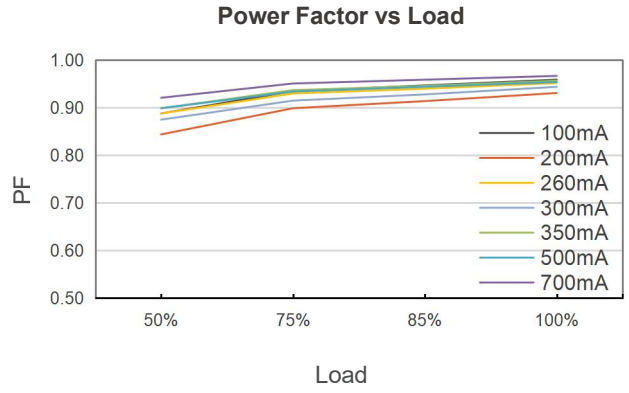
Housing Material	PC
Type of Connection	Cable
Dimensions(LxWxH)	48x30x20mm
Mounting Hole Spacing	44mm
Weight(Typ.)	45g (Typ.)

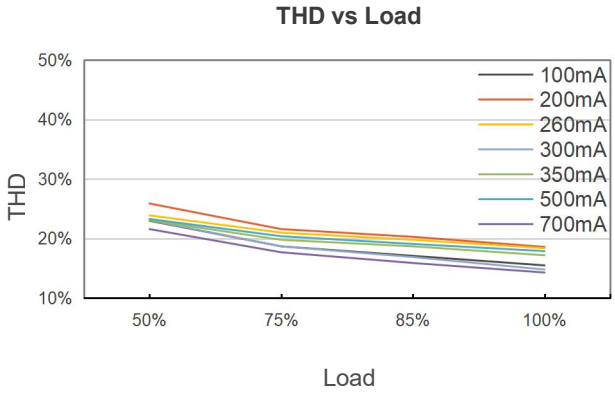
Standards*

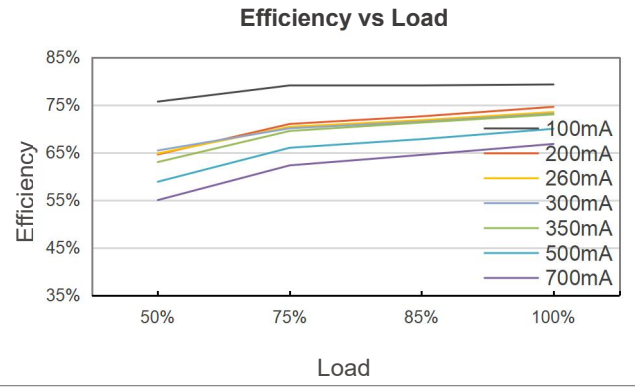
Safety Standards	EN 61347-1, EN 61347-2-13, EN 62493
Performance	EN 62384
EMC Standards	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547

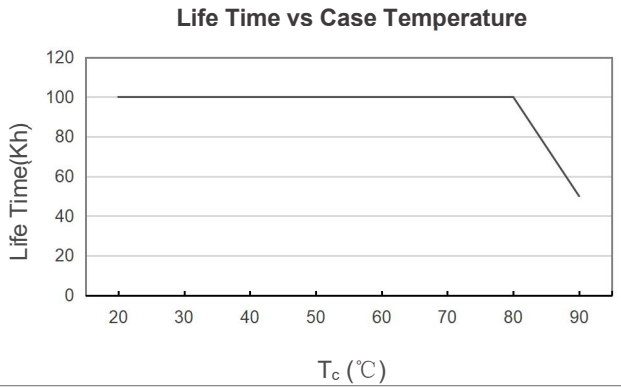
Note: *The above refers to the standards the product design complies with. For specific certifications obtained, please refer to page 1.

Product Characteristic Curve



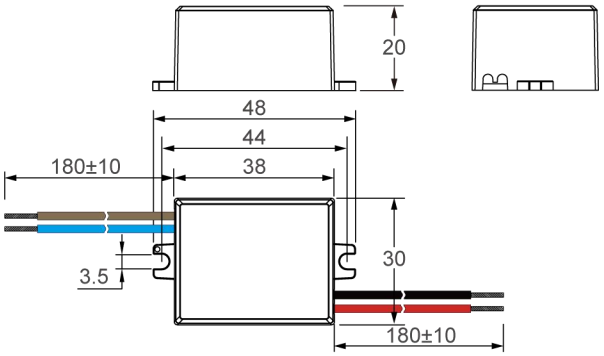




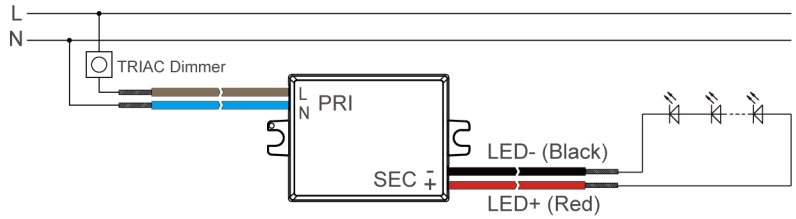


Appearance of size

Dimension Drawing (mm)



Wiring Diagram



Wire information

Function	Wire color	Type
VAC in (L)	Brown	VDE 7022 0.75mm²
VAC in (N)	Blue	
LED-	Black	VDE 7902 20AWG
LED+	Red	

Note: 1. Hot plug-in is not supported. Always connect or disconnect LED loads with the power completely turned off.

2. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.