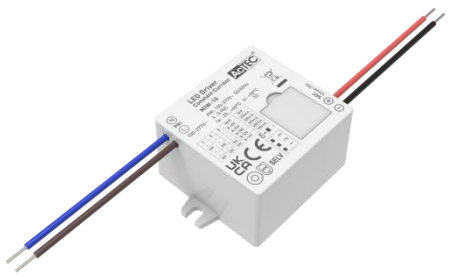
LED Driver

MIW-15

Features



- Super compact design for built-in use
- Universal AC input (100-277V AC)
- Analogue flicker-free
- Configurable constant current output via dip-switch
- Primary and secondary sides come with leads
- Protections: opencircuit, shortcircuit, overload, overtemperature
- Seal with glue, the operating temperature up to 60℃
- Differential mode 2kV and common mode 4kV surge immunity
- SELV equivalent
- EOFi=0.95
- Suitable for protection 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 (%)
MIW-15	100-277	0.2	0.90C	15	15	300	12-50	75	83
					15	350	12-42	75	82
					15	500	12-30	75	81
					15	700	12-21	75	80

Input Parameters

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	AC Input	90VAC	--	305VAC
	DC Input	140VDC	--	280VDC
Rated Input Frequency	AC Input	--	50/60Hz	--
No-load Power Consumption		--	--	N/A
Inrush Current	Cold Start@230V	10A/100us		

Max.units Per Circuit Breaker

Circuit Breaker	Circuit Breaker Current			
Typ.	10A	13A	16A	20A
B	50	65	80	100
C	50	65	80	100

Output Parameters

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	Full Load@230V	--	±5%	--
Ripple & Noise	Low Frequency < 120Hz, Full Load@230VAC	--	--	600mA
Pst LM		--	--	1

SVM		--	--	0.4
Galvanic Isolation	SELV			
Short-Circuit Protection (SCP)	Auto-Recovery 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		-20...+60℃(-20...+50℃@700mA)
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	90℃
Max.Case Temp.In Fault Condition		110℃
Storage Temperature Range		-20...+70℃
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	2kV, 4kV
Environmental Rating		Indoor
IP Rating		IP20
Mains Switching Cycles		> 100,000
Expected Lifetime	t_{cmax}=85℃, 0.2%/1000h failure rate	50,000h

Physical Parameters

Housing Material	PC
Type of connection	Cable
Dimensions (LxWxH)	54x40x24mm
Mounting hole spacing	48mm
Weight	68±5g

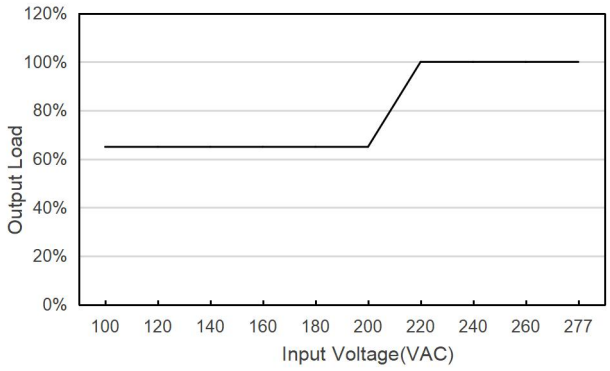
Standards

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

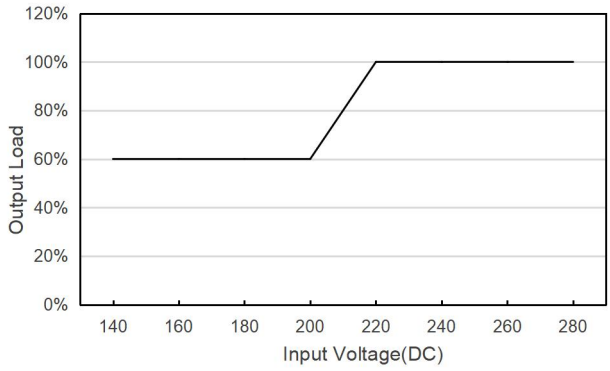
*ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.

Product Characteristic Curve

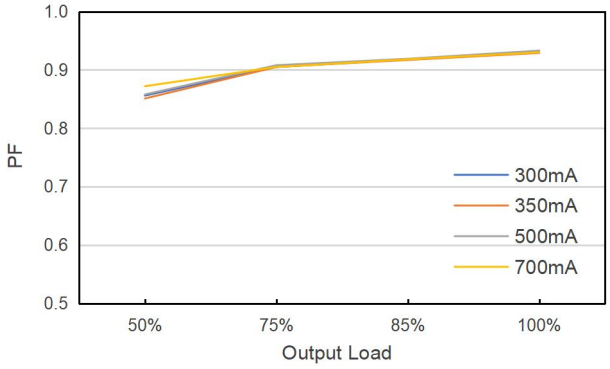
Load vs Input Voltage



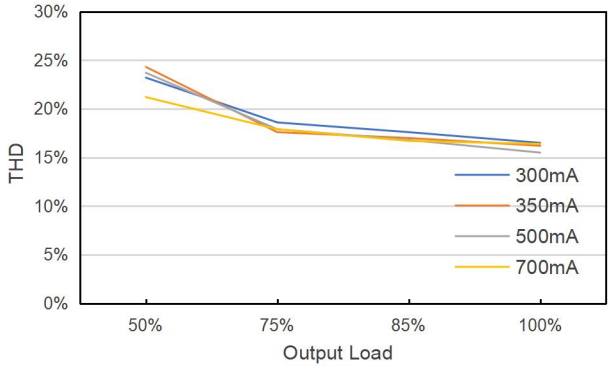
Load vs Input Voltage



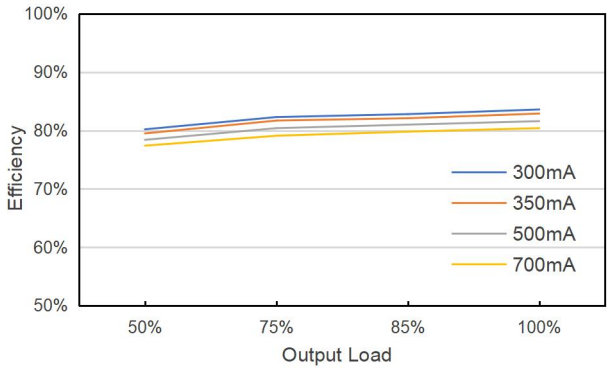
Power Factor vs Load



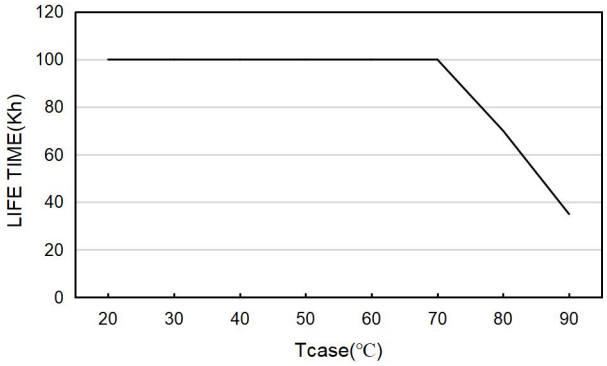
Total Harmonic Distortion vs Load



Efficiency vs Load

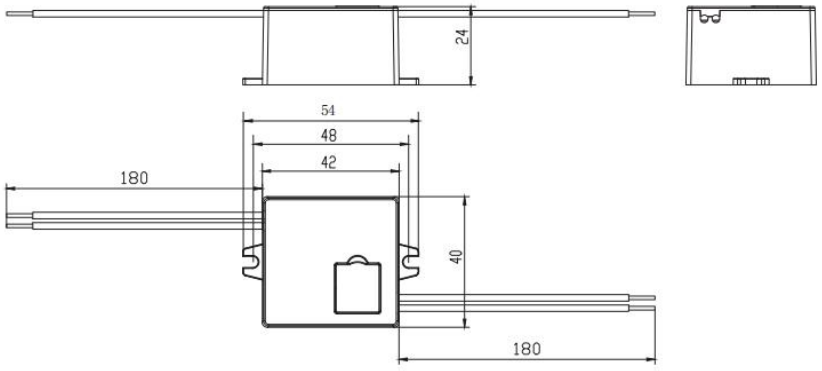


Life Time vs Case Temperature

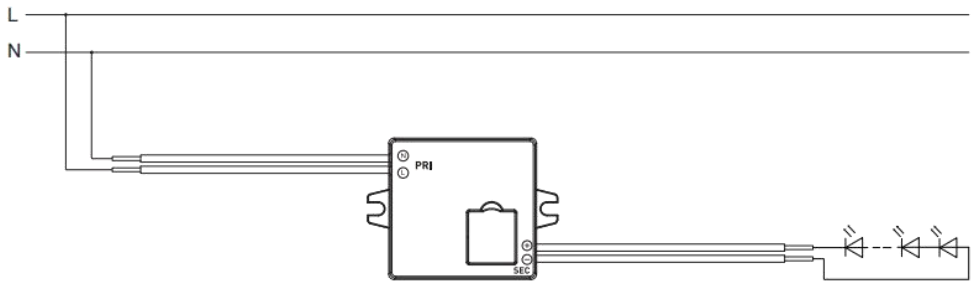


Appearance of Size

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.