SLIM RSLM-09A

9W Dimmable LED Driver

Features

The RSLM-09A LED driver is designed to generate one constant current output from an AC input, and work with industry standard lighting controls in dimming applications.

- Input Voltage 220-240VAC
- Constant output current 700mA
- Operates with Standard Industry Triac Dimmers
- Compact Encapsulated Assembly
- Active Power Factor Correction
- Output Short-Circuit and Open-Circuit protection
- Temperature Operation up to 70°C Top Case
- ENEC Approved, CE Mark
- Independent SELV Controlgear
- RoHS Compliant (directive 2011/65/EU)
- 3 Years Warranty

Applications and Benefits

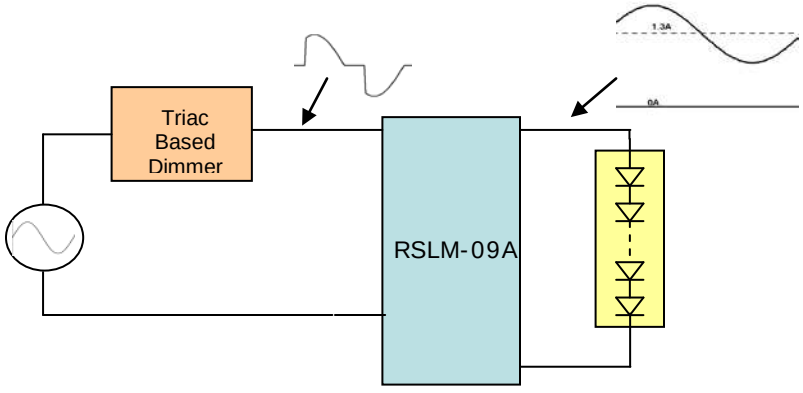
RSLM-09A is designed for powering LED luminaries. The modules operate with:

- Standard Light Switches
- Triac based Incandescent Dimmers (Standard phase – leading edge)
- Electronic Low Voltage Dimmers (Reverse Phase – trailing edge)

RSLM-09A is ideal for installations requiring dimmable outputs such as:

- General Indoor Lighting
- Commercial Lighting
- Residential Lighting

The following diagram depicts a typical installation utilizing the RSLM-09A:



- Dimming range down to 0% output current
- Output current does not terminate during off time of dimmer
- Multiple Drivers / LED Assemblies may be connected to a single dimmer

Input and Output Specification

Input Voltage: 220-240 VAC
211 - 264 VAC
47-63 Hz Frequency Range

Efficiency: 75% Typical @ >230VAC, Full load

Insulation: ⧈ Class II (Reinforced/Double Insulation)

Input Power Factor: >0.9 typical

THD: <30% typical

Lifetime: >20khrs @50°C Ambient

MTBF: >90khrs @ 50°C Ambient MIL-HDBK 217

Output Voltage: from 5 to 12 VDC
No Load max output Voltage: 16VDC
Output Current: 700mA

Ripple Current: <40% (P-P) of maximum Output Current with no dimming

Dimming: Output dimming is possible via industry dimmers*. (leading and trailing edge)

Output Regulation: ±7% of output Current

Output Protection: Short-Circuit and Open-Circuit protection

Output Control: Output Dims without any flicker.

Total dimming range is as follows:

Conduction Angle / output: 180 degrees/ 100% max
30 degrees / 10% min

* Refer to the following list for RSLM-09A Trailing Edge Dimming and Leading Edge Dimming tested interfaces:
Trailing Edge: WUYUN (W13-G162), HYTRONIK(HD1260)
Leading Edge: TCL (LM2), Panasonic (WMS549), Jung (244EX), Busch (2200UJ-212/2250U/2247), Berker (2873), Lightregler (T10), Gira (0300/1184), EVERFLOURISH (EF0700DA)

Performance Requirements: Meets the requirements of IEC 62384: control gear for LED modules

EMC Compliance

Conducted & Radiated Emission	EN55015, Class B
Harmonic Current Emissions	EN61000-3-2, Class A
Voltage Changes, Fluctuation and Flicker	EN61000-3-3
ESD (Electrostatic Discharge)	EN61000-4-2, (Contact ±4kV; Air ±8kV)
Radiated Radio-Frequency electromagnetic field	EN61000-4-3, Level 3
Surge Immunity test	EN61000-4-5, Class 2, ± 0.5kV (L-N), ± 1kV (L-GND)
Conducted disturbances induced by Radio-Frequency fields	EN61000-4-6, Level 3
Voltage Dips, short interruptions and Voltage Variations	EN61000-4-11, Class 3

Eu and RoW

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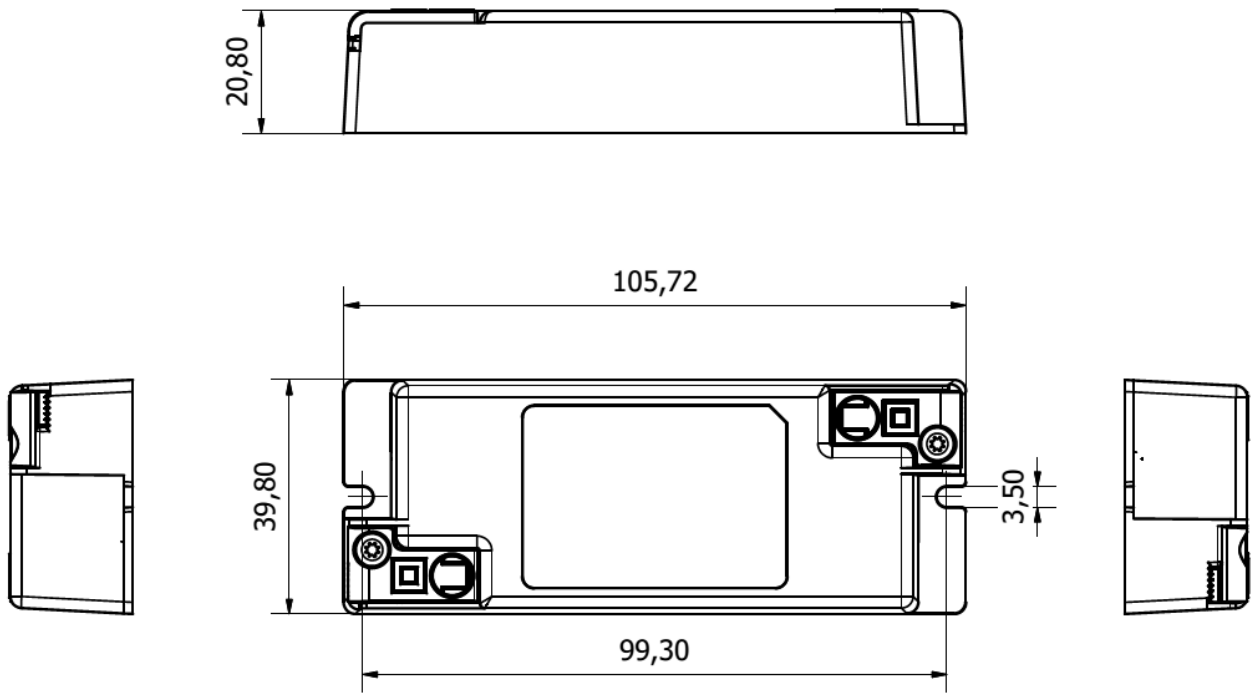
Mechanical Details

Packaging Options:	Plastic body enclosure
I/O Connections:	2-pin Push in connectors (Input and Output Side)
Mounting Details:	2 Fixing holes for screws
Ingress Protection:	IP20 Rated

Independent SELV Controlgear when caps are mounted

Outline Drawing

Max Dimension: 106mm x 40mm x 21mm
Strip wire to 8-9mm; Φ 0.4-0.75mm



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Environmental

Operating Temperature:	-20°C to +70°C Top case temp without derating
Ambient Temperature:	-20°C to +50°C without derating
Operating Relative Humidity:	5% to 95%, non-condensing
Storage Temperature:	-40°C to +85°C
Cooling:	Convection cooled

Safety Agency Approvals

IEC/EN61347-1 Lamp Control gear general and Safety requirements

IEC/EN61347-2-13 electronic control gear for LED Modules

IEC/EN 62384 DC or AC supplied electronic control gear for LED modules – Performance Requirements

ENEC and CE Mark

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