

Features

The RSLM-30A 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
- Phase dimmable
- Compact Encapsulated Assembly
- Active Power Factor Correction
- Output Short-Circuit and Open-Circuit protection
- Temperature Operation up to 90°C Top Case
- ENEC Approved, CE Mark
- Independent SELV Controlgear
- RoHS Compliant (directive 2011/65/EU)
- 3 Years Warranty



Applications and Benefits

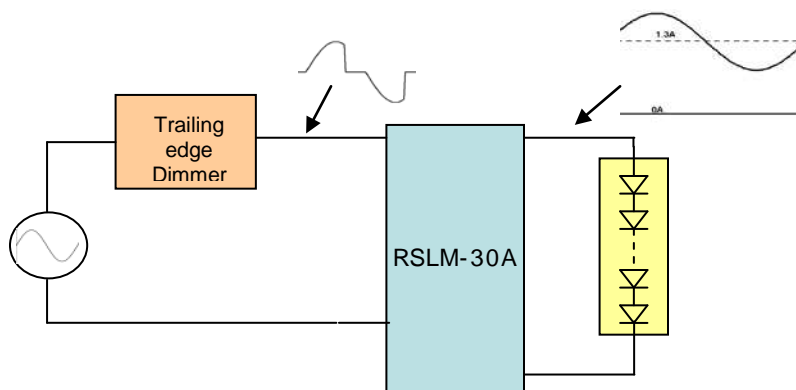
RSLM-30A is designed for powering LED luminaires. The modules operate with:

- Standard Light Switches
- Electronic Low Voltage Dimmers (Reverse Phase – trailing edge)

RSLM-30A 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-30A:




- 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: 80% Typical @ >230VAC, Full load

Insulation:  Class II
(Reinforced/Double Insulation)

Input Power Factor: >0.9 typical

THD: <20% typical

Lifetime: >20khrs @ 50°C Ambient

MTBF: >70khrs @ 50°C Ambient MIL217-HDBK 217

Output Voltage: from 15 to 42 VDC
No Load max output Voltage: 48VDC
Output Current: 700mA

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

Dimming: Output dimming is possible via trailing edge dimmers*.

Output Regulation: $\pm 7\%$ 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-30A Trailing Edge tested interfaces:
WUYUN (W13-G162), HYTRONIK(HD1260)

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 C
Voltage Changes, Fluctuation and Flicker	EN61000-3-3
ESD (Electrostatic Discharge)	EN61000-4-2, (Contact $\pm 4\text{kV}$; Air $\pm 8\text{kV}$)
Radiated Radio-Frequency electromagnetic field	EN61000-4-3, Level 3
Surge Immunity test	EN61000-4-5, Class 3, $\pm 1\text{kV}$ (L-N), $\pm 2\text{kV}$ (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


ROAL Electronics S.p.A
Via Jesina 56/A
60022 – Castelfidardo (AN) - Italy
Tel: +39 071 721461
Fax: +39 071 72146 480

www.roallivingenergy.com

North America

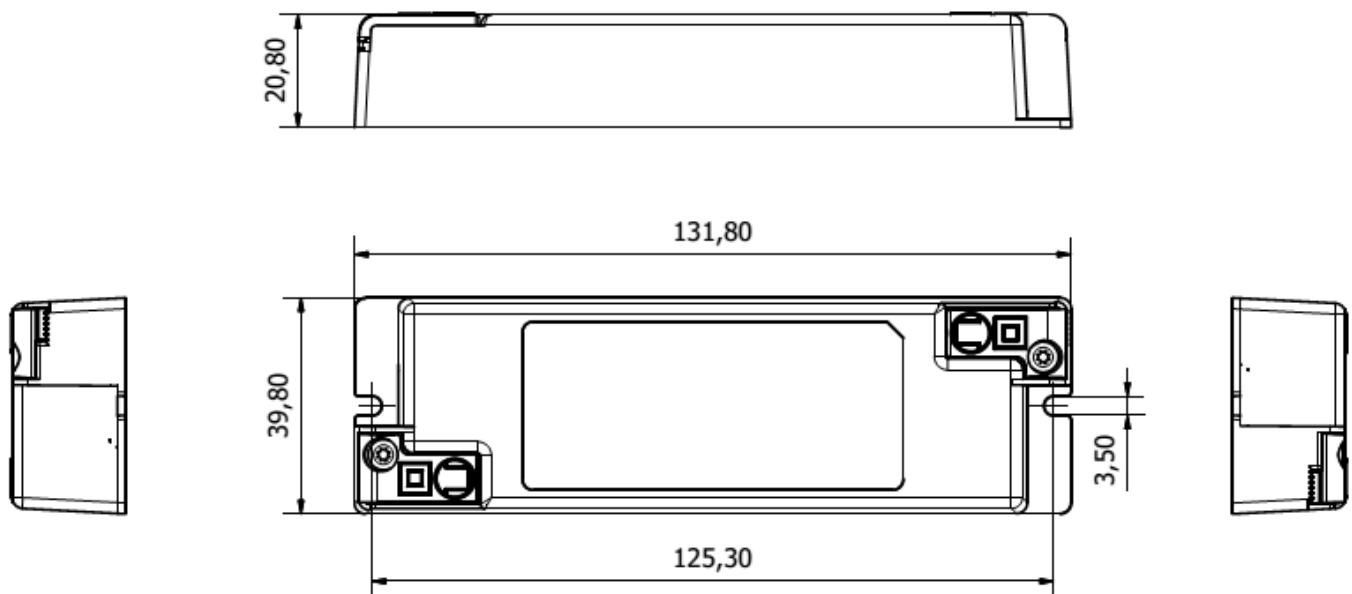
ROAL Electronics USA, Inc.
701 Main St., Suite 405
Stroudsburg, PA 18360
Phone: +1 570 421 5750
Fax: +1 570 421 5687

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: 132mm x 40mm x 21mm
Strip wire to 8-9mm; Φ 0.4-0.75mm



Eu and RoW

ROAL Electronics S.p.A
Via Jesina 56/A
60022 – Castelfidardo (AN) - Italy
Tel: +39 071 721461
Fax: +39 071 72146 480

www.roallivingenergy.com

North America

ROAL Electronics USA, Inc.
701 Main St., Suite 405
Stroudsburg, PA 18360
Phone: +1 570 421 5750
Fax: +1 570 421 5687

Environmental

Operating Temperature:	-20°C to 90°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 +70°C Ambient
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



Roal Electronics, S.p.A. may change product specifications and accordingly the information presented in this document. Customers are responsible for their products and applications using Roal Electronics, S.p.A. products. Roal Electronics, S.p.A. assumes no liability from the use of its products outside of specifications. No license is granted to any intellectual property rights by this document. ROAL ELECTRONICS, S.P.A. DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF NONINFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Eu and RoW

ROAL Electronics S.p.A.
Via Jesina 56/A
60022 – Castelfidardo (AN) - Italy
Tel: +39 071 721461
Fax: +39 071 72146 480

www.roallivingenergy.com

North America

ROAL Electronics USA, Inc.
701 Main St., Suite 405
Stroudsburg, PA 18360
Phone: +1 570 421 5750
Fax: +1 570 421 5687