

ORLRPV20D-250-700MA

ITEM NO. DRIVER - 28382

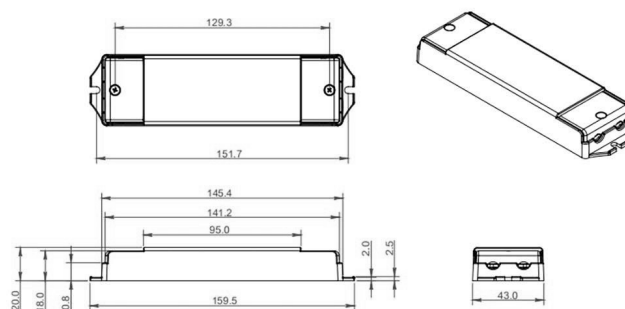
Features

- Constant current mode output with multiple levels selectable by dip switch
- Dimming function: Triac/phase cut dimming
- Work with leading or trailing edge Triac dimmer
- (ON key: leading edge; 1 key: trailing edge)
- AC input: 200-240VAC
- Built-in active PFC function
- Efficiency up to 78%
- IP20 design for indoor installation
- Full protection plastic housing easy installation
- Protections: Short circuit/ Over load
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- Strong compatibility, flicker-free dimming



Dimension

SP2



Technical Specification

ORLRPV20D-250-700MA

T ON **L** OFF

Output Specifications

	700mA	600mA	550mA	500mA	450mA	400mA	350mA	250mA
Rated Current	TTT	TTT	TTT	TTT	TTT	TTT	TTT	TTT
Current Tolerance	± 25mA							
Output Voltage	3-29V	3-33V	3-36V	3-40V	3-42V	3-42V	3-42V	3-42V
Rated power	20.3W	19.8W	19.8W	20W	18.9W	16.8W	14.7W	10.5W

Input Specifications

Voltage Range	200-240VAC							
Frequency Range	47-63Hz							
Inrush Current	2.96A (Twidth=7.6μs 230VAC)							
Power Factor (Typ.)	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Full Load Efficiency (Typ.)	78%	78%	78%	78%	78%	78%	78%	78%
AC Current (Typ.)	0.15A							
Leakage Current	<0.50mA/220VAC							

Technical Specification Continued

Protection

Short Circuit	Constant Current mode, recovers automatically after fault condition is removed
Over Load	≤120%
Over Current	≤1.4*I out
Protection Class	II

Environment

Working Temperature	-40~+60°C (Refer to derating curve)
Working Humidity	20-90% RH, non-condensing
Storage Temperature, Humidity	-40~+80°C, 10-95% RH

Safety & EMC

Safety standards	EN61347-1, EN61347-2-13, UL8750
Withstand voltage	I/P-O/P:3.75KVAC
Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH
EMC Emission	Compliance to EN55015, EN61000-3-2,3 (≥50% load), FCC Part 15B
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, A light industry level (surge 4KV)

Other Specifications

Weight	0.10 kg
Size	159 x 43x 20 mm
Packing	320 x 280 x 215 mm (50PCS/CTN)

Mechanical Specifications

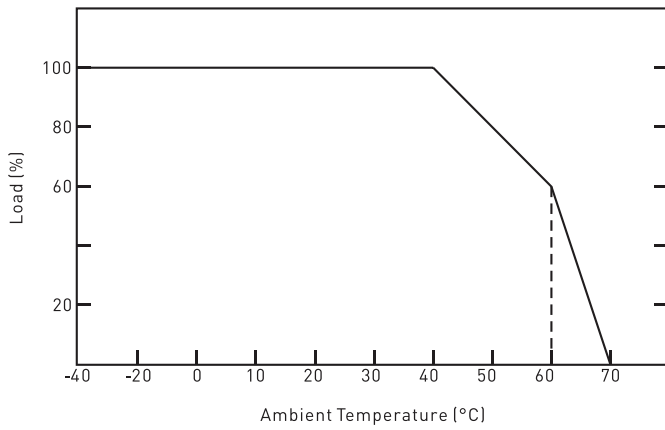
- Input with DG126 terminals 3P: Live Wire AC (L), Neutral Wire AC(N) EI
- Output LED SEC with DG126 terminals 2P: output Positive (LED+), output negative (LED-). Connected to LED Lamps.
- Suggested wire diameter: Input 0.75-2mm²; Output:0.5-2mm².
- Please make sure you connect these correctly otherwise your product will not function correctly and could be damaged.
- Note: Any other requests we can customized.

Dimming Operation:

- Output constant current level can be adjusted through input terminal of the AC phase line(L) by connection a Triac dimmer.
- Usually matching with leading edge and trailing edge dimmer both. At input area of ORLRPV20D-250-700MA series:
- Please try to use the small power dimmer, have access to a wider dimming range, high-power dimmer is difficult to achieve the output current to zero
- Please try to use dimmers with power at least 2 times as the output power of the driver.

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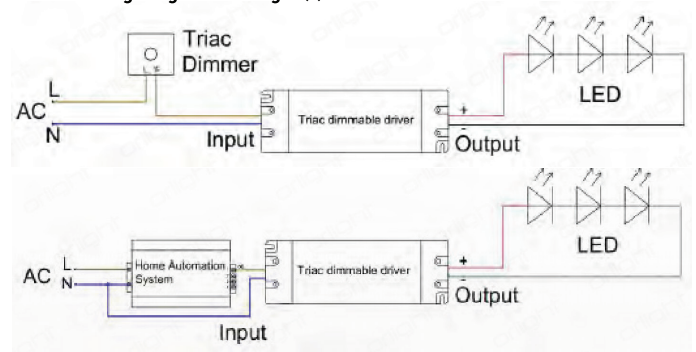
Derating Curve



To extend their life, please refer to the Derating Curve and derate according to the temperature.

Static Characteristics

Connecting Diagram in Single (I)



Connecting Diagram in Multiple (II)

