

ORLRPV20D-500MA

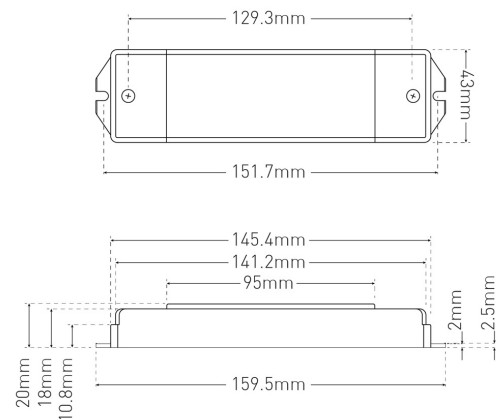
ITEM NO. 43630

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



Technical Specification

Output	Rated Current	500mA TTI
	Current Tolerance	± 25mA
	Output Voltage	3-40V
	Rated Power	20W
Input	Voltage Range	200 - 240VAC
	Frequency Range	47-63 Hz
	Inrush Current	2.96A (Twidh = 7.6 μs 230VAC)
	Power Factor (Typ.)	0.95
	Full Load Efficiency (Typ.)	78%
	AC Current (Typ.)	0.15A
	Leakage Current	< 0.5mA /220VAC
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 Temp.	-40 ~ +60°C (Refer to derating curve)
	Working Humidity	20% ~ 90% RH, non-condensing
	Storage Temp. & Humidity	-40 ~ +80°C, 10% ~ 95% RH

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Technical Specification Continued

Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13, UL8750
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ω hms / 500VDC / 25°C / 70% RH
	EMC Emission	Compliance to EN55015, EN61000-3-2, 3 ($\geq 50\%$ load), FCC Part 15B
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,11, EN61547, A light industry level (surge 4KV)
Others	Weight	0.10 kg
	Dimension	159 x 43 x 20mm

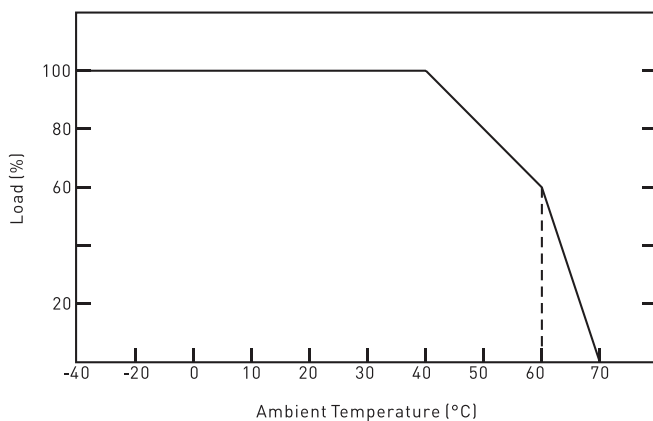
Mechanical Specifications

- 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.

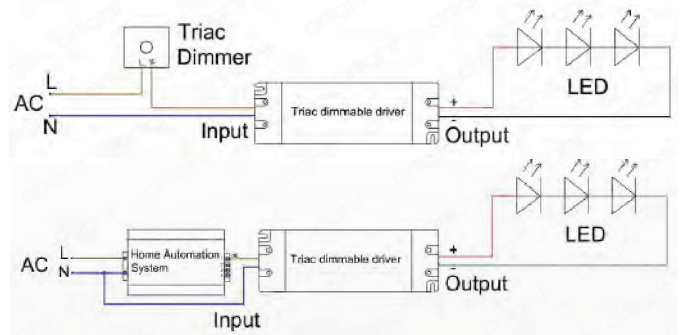
Derating Curve



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)

