

MSD-MV320 Series

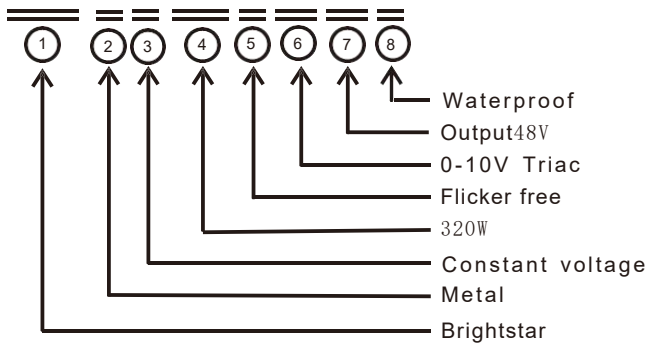
Product Features

- Wide input Voltage range 100-277VAVC
- High efficiency >90%, PF >0.95, PWM output method
- Support triac dimming (Leading/trailing edge)
- Excellent dimming effect & strong compatibility
- IP Grade: 67, suitable for indoor and outdoor usage
- Short circuit & over-current & over-voltage protection
- CE SAA TUV ETL UL passed
- Natural wind heat dissipation
- long lifespan & 5 years warranty



Naming rule

MSDMV320YTA48W



warning

The dimming product is only suitable for direct drive LEDs.
 If there is a circuit drive LED or load with capacitance inside the LED, it is not suitable for this dimming power supply.

Number	Function
①	MSD: Brightstar
②	M: Metal P: Plastic
③	V: Constant voltage C: Constant current
④	320: 320W
⑤	N: Flicker free Y: Flicker
⑥	A: 0-10V/1-10V D: DALI T: TRIAC TA: 0-10V/1-10V TRIAC P: PWM O: OTHER
⑦	Output voltage
⑧	W: Waterproof N: non waterproof

Technical Parameters

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Model		MSD-MV320				
Output	Voltage	24V	36V	48V		
	Current	12.5A(Max)	8.3A(Max)	6.25A(Max)		
	Power	320W	320W	320W		
	Ripple& noise(max)	<250mVp-p	<250mVp-p	<250mVp-p		
	Efficiency Full load		90%@110VAC	92%@110VAC	92%@110VAC	
			92%@230VAC	92%@230VAC	92%@230VAC	
		Start, rise time	500ms, 100ms/230VAC, 1000ms, 100ms/110VAC			
	Hold time	10ms/110VAC, 230VAC				
Input	Input voltage	100-277VAC				
	Frequency	50-60Hz				
	Power Factor	PF>0.98@110VAC PF>0.95@230VAC				
	THD	<17%@230V				
	Standby power	<5W				
	Current	3.3Amax@100VAC				
	Inrush Current	Cold start 70A(twidth=350us measured at 50% Ipeak)@230VAC				
Protection	Short Circuit	Hit cup,recovers after resart				
	Over voltage	Hit cup,recovers after fault condition is removed				
	Over Load	Hic cup,recovers after fault condition is removed				
	Over temperature	No Output ,recovers after temperature<110℃				
Safety& EMC	Surge	L-N:2KV,L,N-PG:4KV				
	Withstand Voltage	I/P-O/P:3.75KVAC/1min/5mA;I/P-GND:2KVAC/1min/5mA				
	Safety Standards	IEC/EN61347-1,IEC/EN61347-2-13				
Environment	Working Temp	-25℃~45℃				
	Storage Temp	-40℃~85℃				
	Tc	85℃				
	IP Rating	IP67				
Others	Dimension	258*75*45mm				
	Weight	1700g				

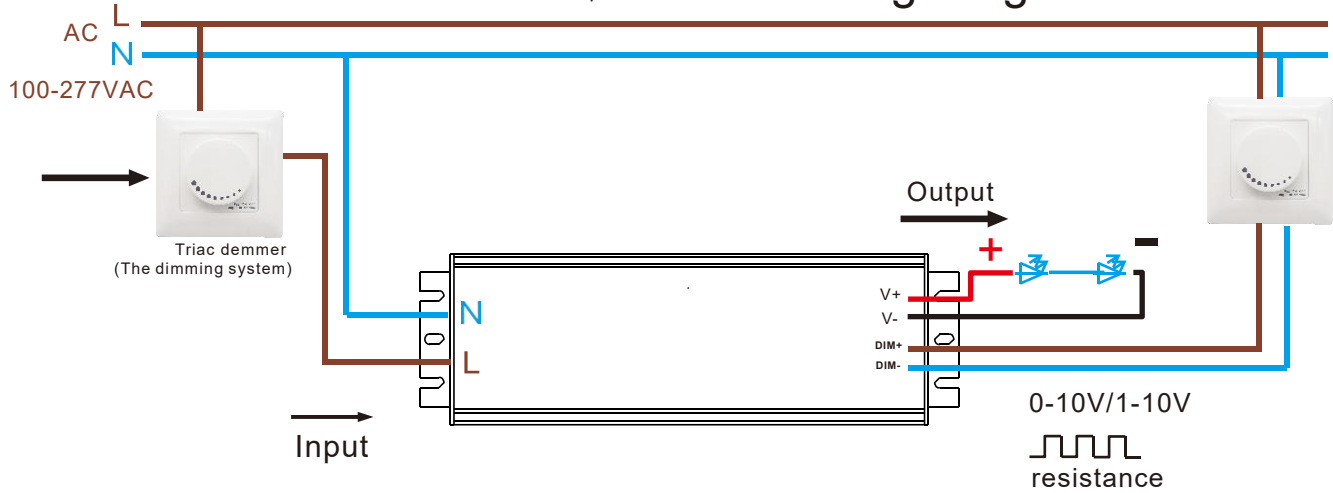
Note:

- 1.Unless otherwise specified, all specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25℃.
2. Ripple and noise measurement method: A12" twisted-pair line with 0.1uF and47uF capacitors in parallel should be used for measurement under 20MHZ bandwidth.
- 3.The start time is measured under the starting of the cold machine.
Frequent switching on and off may increase the start time.
4. The driver is regarded as a component used in combination with the terminal equipment.
Since the EMC is affected by the whole device, the manufacturer of the terminal equipment needs to reconfirm the EMC of the whole device.

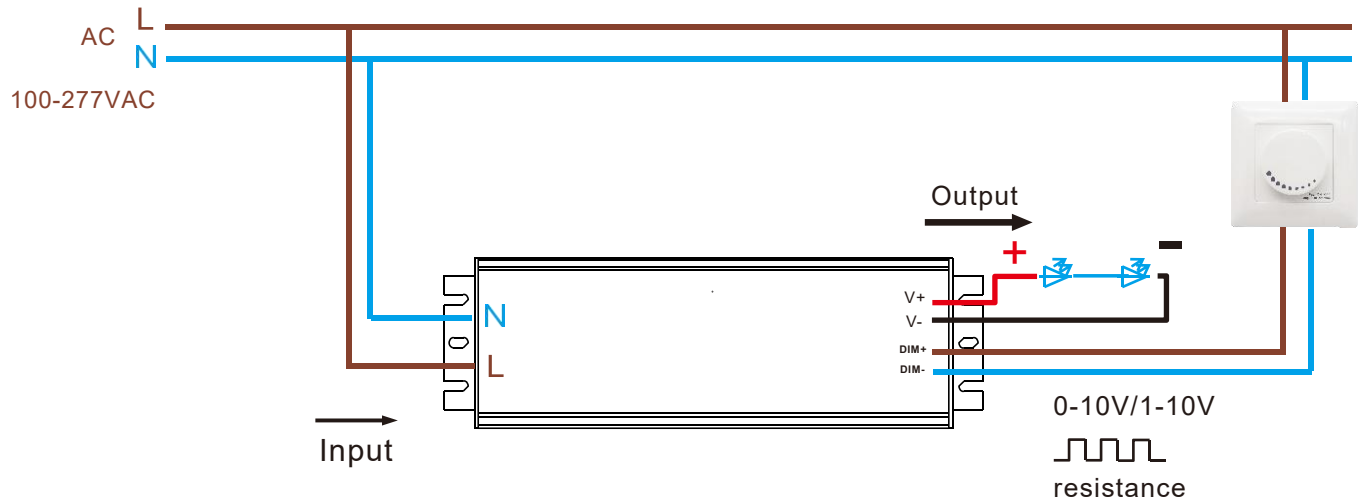
Installation Introduction

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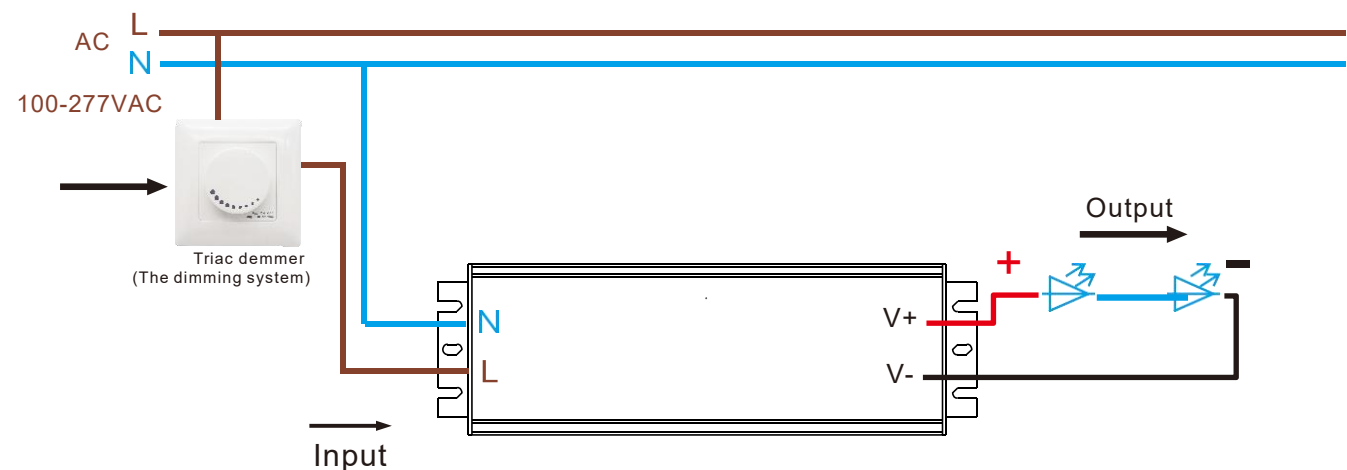
Triac or 0/1-10V wiring diagram



0/1-10V wiring diagram

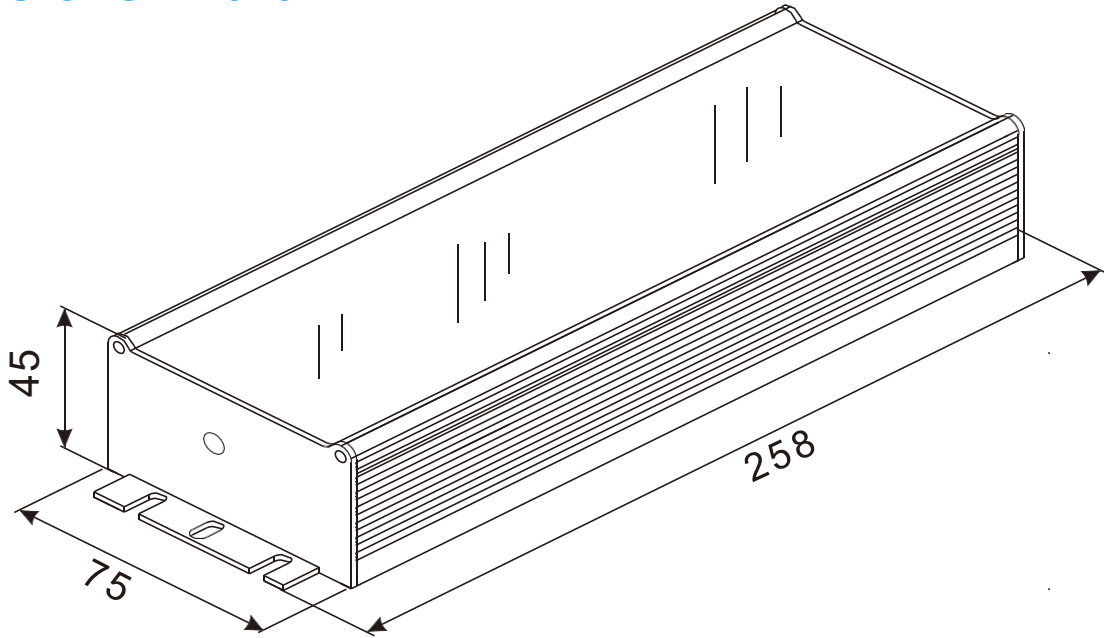


Triac wiring diagram

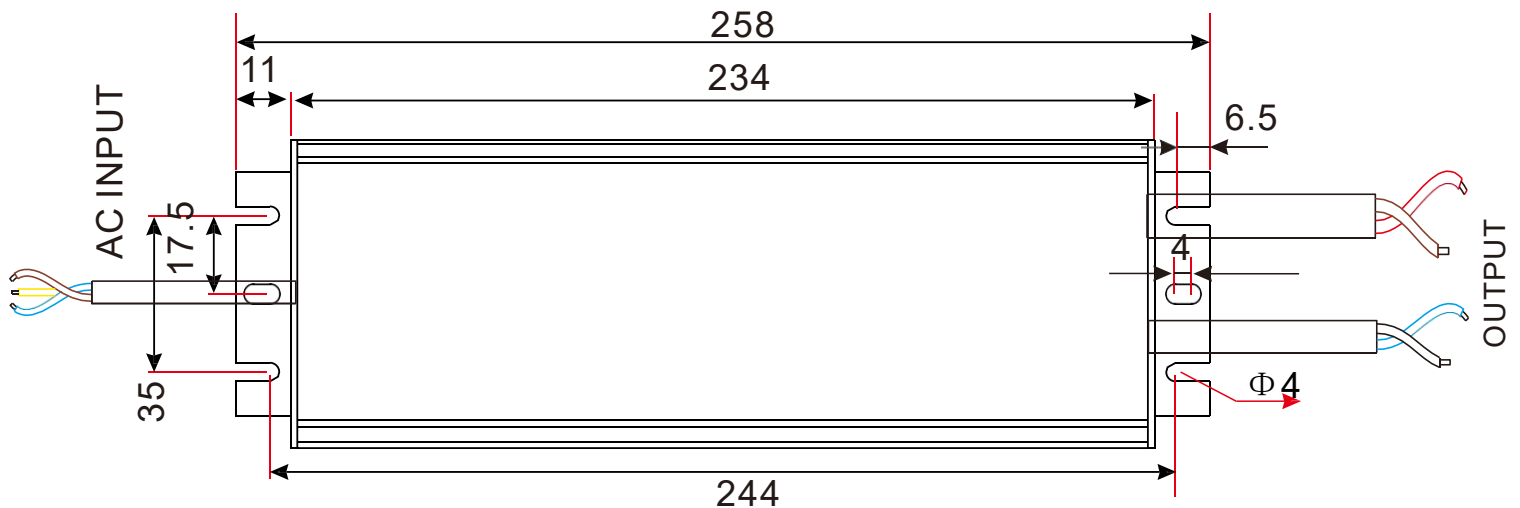


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Dimensions Chart



Install size



Unit:mm