



SPECIFICATIONS

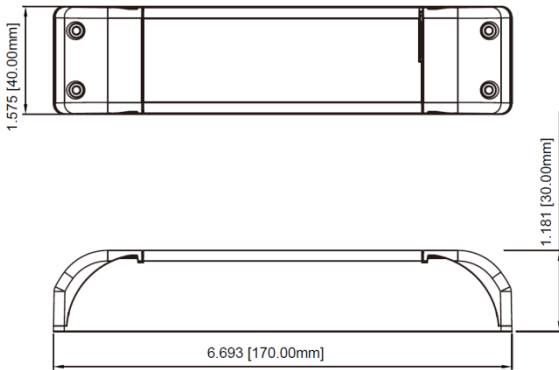


IP20

Mechanical and Thermal

Dimensions L 6.693" x W1.575" x H 1.181"

Weight 150g



Dimension in Inch/ Metric

MDR-751-600-25-E0

Features

- ✓ 0-10V & TRIAC/ELV Dimmable in 1
- ✓ Independent housing
- ✓ Constant Current Output
- ✓ Active Power Factor
- ✓ Class II compliance
- ✓ 5 Year Warranty
- ✓ Ultra Slow Ripple
- ✓ Dip switch for selecting output current

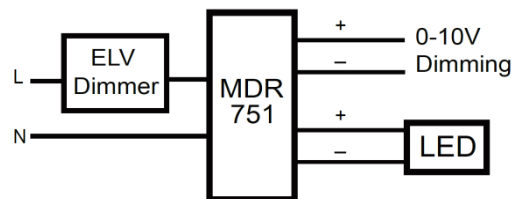
Protection

- Auto-reset electronic short circuit
- Overload protection
- Thermal protection
- Class II

Environmental Specifications

- Operating Temperature -20° to 60°C
- Storage Temperature -20° to 70°C
- MTBF >100,000 hrs
- -Lead Free SMT process

Wiring Diagram



- Don't connect the 0-10V and Main dimming at the same time.

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1. Input – specification

	Units	Minimum	Typical	Maximum	Notes
Input Voltage Range(Vin)	Vac	220	230	240	
Input Frequency Range	Hz	50/60			
Input Power	W		24		
Power Factor(PF)		0.9	>0.9		From 100% to 80% of rated power
Input Current	A	-	-	0.1A@220VAC 0.1A@240VAC	
Inrush Current	A	Meet NEMA 410 requirements			See the inrush current information
Total Harmonics Distortion (THD)				20%	At nominal input voltage and nominal LED voltage
Efficiency		-	> 82%	-	Efficiency is measured after driver has thermally stabilized + full load
Isolation	EN61347-2-13 for class II SELV isolation power supply				

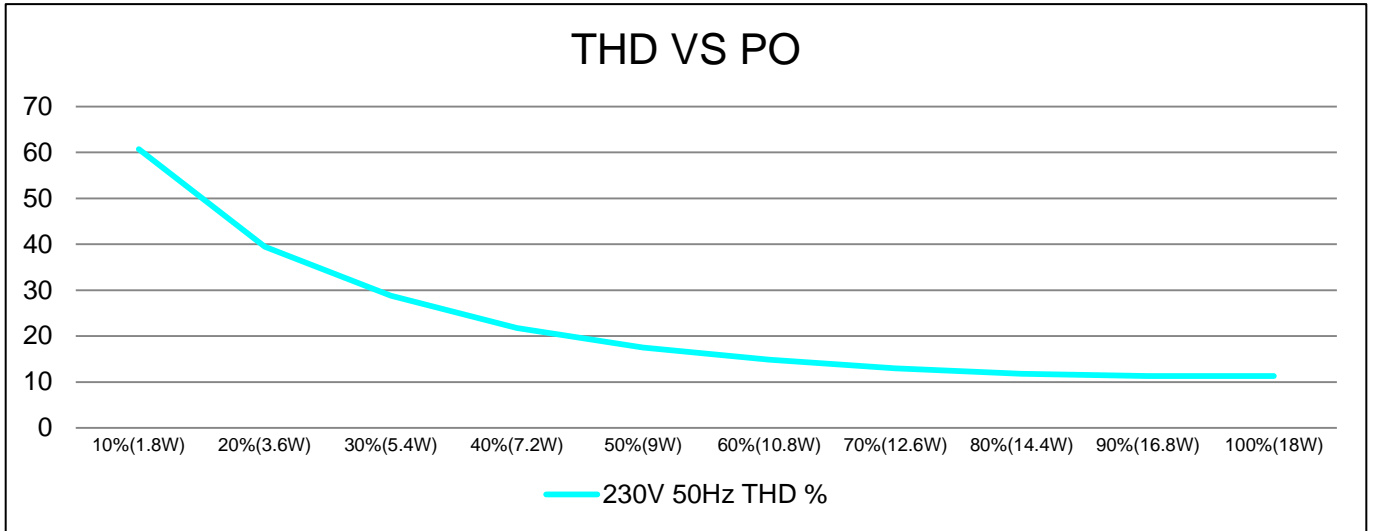
2. Output - specification

	Units	Minimum	Typical	Maximum	Notes
Output Voltage(Volt)	Vdc	25-30V / 325, 375, 550, 600 mA 30-38V / 250, 450, 500 mA			
Output Current(Iout)	mA		250-600		
Output Current Tolerance	%		±5		
Output Ripple Current		< 30% peak-to-peak of 250-600 mA			<p>≤ 20% pk-to-pk of the rated output current for all models with Vout max ≥ 32V</p> <p>≤ 50% pk-to-pk of the rated output current for all models with Vout max ≤ 30V</p> <p>At nominal LED voltage and nominal input voltage without dimming</p>
Dimming Range	%	<5% for TRIAC/ELV <6% for 0-10V dimming		100%	Please refer to Dimmer compatibility list
Star-up Time	ms		200-250		<ul style="list-style-type: none"> Measured at the Maximum load and normal input voltage. Complies with California title 24 and Energy star® luminaire specification.
Isolation	EN61347-2-13for class II SELV isolation power supply				
Operation Case Temperature	°C	-30		80°C	
Audible Noise	dB	< 24dB Class A			

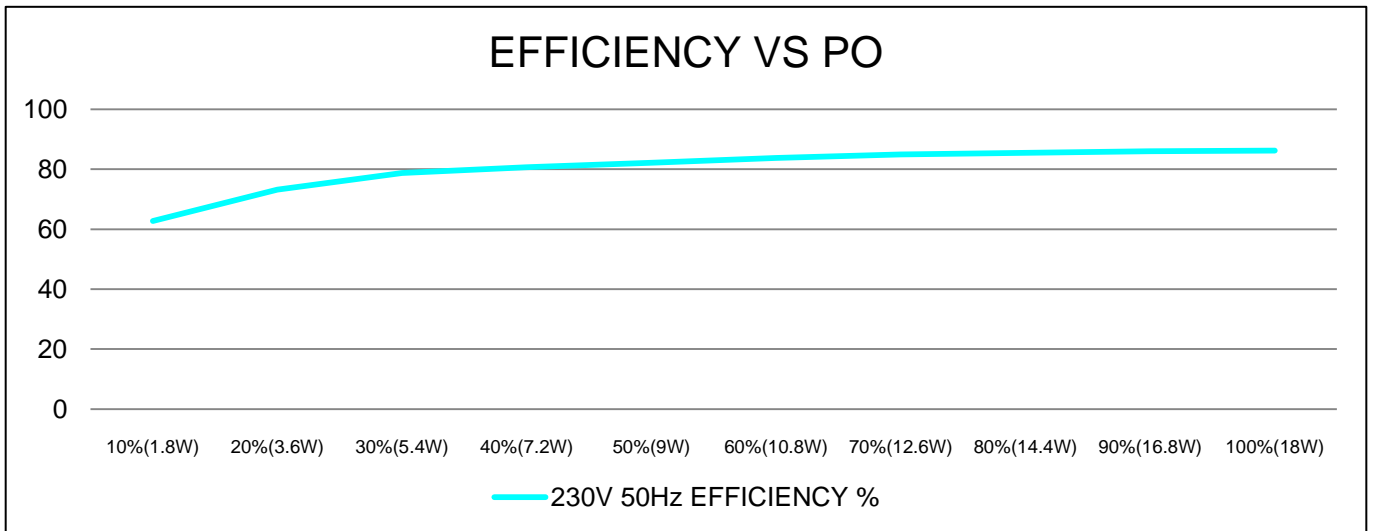
3. EMC / Protection / Compliance

Conducted and Radiated EMI		EN 55015: 2013: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 61547: 2009			
Immunity Compliance	ESD (Electrostatic Discharge)	IEC61000-4-2	6 kV contact discharge, 8 kV air discharge, level 3		
	Electrical Fast Transient	IEC61000-4-4	±2 kV on AC power port for 1 minute, ±1kV on signal/control lines		
	Surge	IEC61000-4-5	±2kV line to line/±2kV line to earth on AC power port, ±0.5kV for outdoor cables		
Transient Protection	Ring Wave		ANSI/IEEE c62.41-1-2002 & c62.41-2-2002 category A, 2.5kV ring wave		

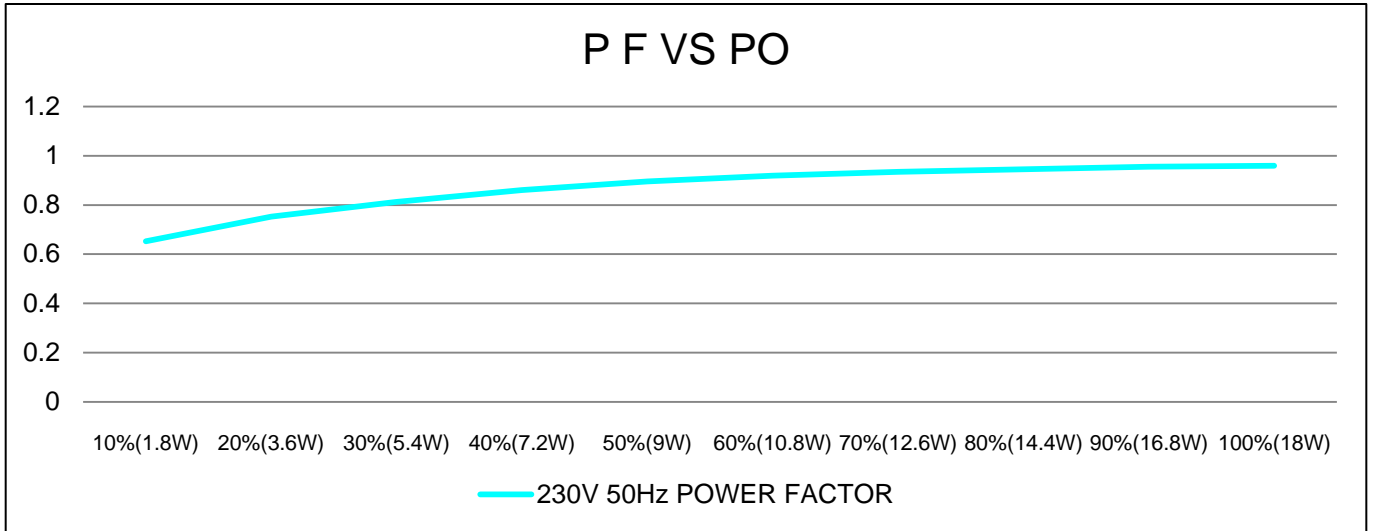
THD of the driver VS Power Output (W)



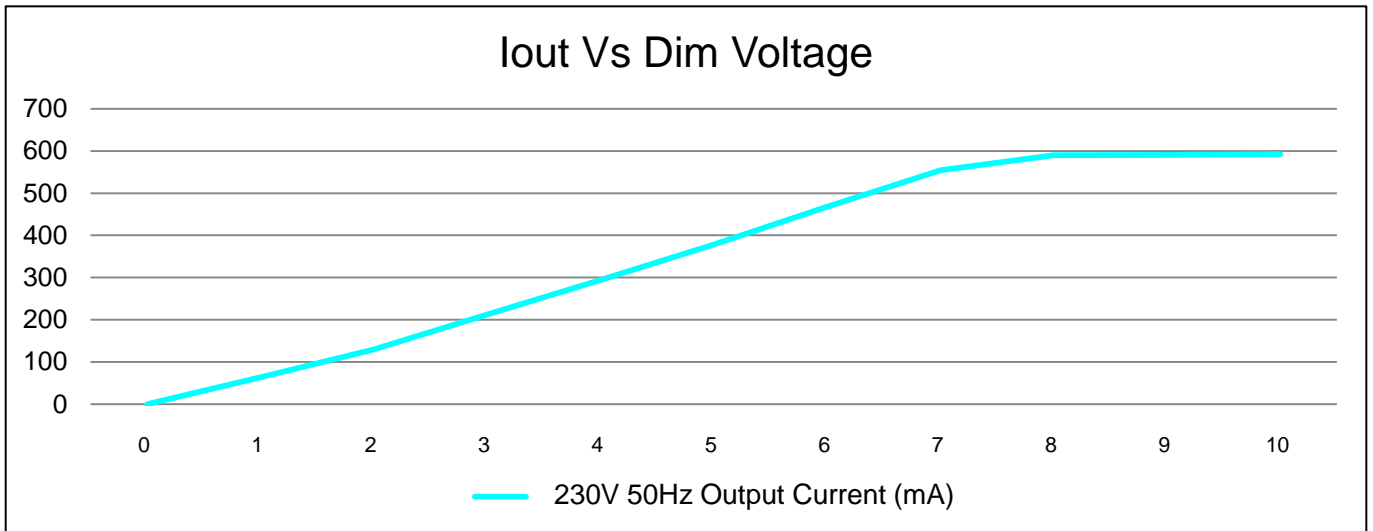
Efficiency of the driver VS Power Output (W)



Power Factor VS Power Output (W):



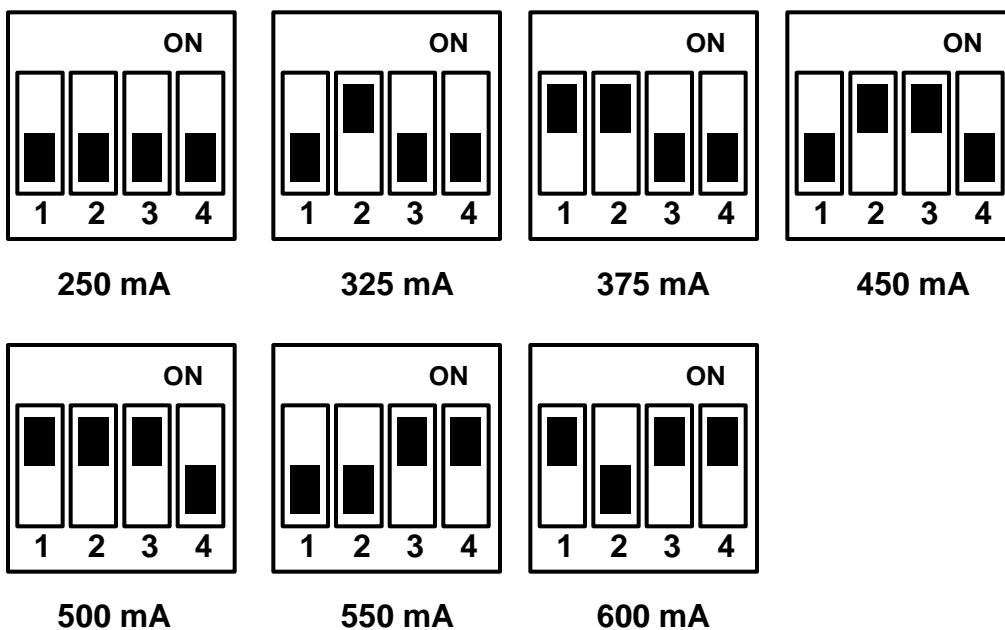
Load of the driver VS Dim Voltage



Current Settings :

LED Current Tolerance over temperature and component variations is $\leq 5\%$ at any level.

The output current of the driver can be adjusted using the two dip switches provided on the top of the driver. The below pictures shows the switch positions required to set the current to different levels.



The driver will be shipped out of factory with both switches set to ON (600mA).



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