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LVA 60/220-240/24 CV20
LVA 100/220-240/24 CV20
LVA 150/220-240/24 CV20
LVA 250/220-240/24 CV20

General Benefits

1-10V Analog Dimmable
24V DC Output Constant Voltage Driver
Better Efficiency & Reliability
Super Slim Cabinet with Screw type Strain Relief
Flicker free Solution
Life – > 50,000 Hrs
3 Years Warranty



Application

Profile Lights
Cove Lights
Grazers Lights
Suitable for all types of Strip light applications

Approvals



Constant Voltage Analog Series

Product Specification Sheet

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Parameters

Category	Item	Technical Norm					
Features	Output Type	Constant Voltage					
	Dimming Type	3 in 1: 1-10VDC, PWM signal, Resistance					
	Output Features	Isolation SELV					
	IP Grade	IP20					
Input	Insulation Class	Class II					
	Rated Input Voltage	220-240VAC					
	Range of AC Input Voltage	176-264VAC					
	Range of DC Input Voltage	175-280VDC					
	Frequency	Rate:50/60Hz, Range:47~63Hz					
	Power Factor	≥0.95, 220-240VAC, Rated Load, see graphs					
	THD	≤7% ≤230VAC, Rated Load, see graphs					
	Standby Power Consumption	≤0.5W, @230VAC,Dim to OFF					
	Inrush Current	Model	IP	IP(typ.)	Duration time	240Vac/50Hz,90-degree phase, full load, cold start-up, duration time measure from 50% Ipk to 50% Ipk	
		60W	<30A	26A	220us		
		100W	<50A	45A	250us		
		150W	<60A	56A	185us		
			250W	<80A	76A	310us	
		Connected quantity of 16A Breaker	60W	18pcs,16A type B / 30pcs 16A type C			
			100W	10pcs,16A type B / 17pcs 16A type C			
			150W	8pcs,16A type B / 13pcs 16A type C			
			250W	6pcs,16A type B / 8pcs 16A type C			
Output	Output Voltage	24VDC±3%					
	Output Voltage Ripple	60W/100W/150W/250W <240mVPK-PK (0.5%)					
	Line Regulation	±1%					
	Load Regulation	±2%					
	Overshoot	<105%Vo					
	Start-up Time	≤0.5S (220-240VAC)					
	Hold-up time & Turn off time (Typical)	Model	Hold-up time(ms)	Turn-off time(ms)	230VAC, LED Rated Load, Hold-up time measure from AC input turn-off to output voltage drop to 90%, turn-off time measure from AC input turn-off to output voltage drop to 10%		
		60W	22.8	62.8			
		100W	9.2	69.6			
		150W	10	384			
			250W	16.2	676		
		Efficiency	60W	≥86%	88% typ.	230VAC, Rated Load, at output terminals, see graphs	
			100W	≥91%	93% typ.		
			150W	≥91%	93% typ.		
			250W	≥91%	93% typ.		
Protection	Short Circuit Protection	Auto Recovery					
	Over Current Protection	120%-180%Io, Auto Recovery					
	Over Voltage Protection	110%-150%Vo, Auto Recovery					
	Over Temperature Protection	90<Tc<110℃, Auto Recovery (only for 100W/150W/250W)					
	Insulation voltage	I/P to O/P,3KVac/5mA/1min					
	Insulation resistance	>100M ohm @ 500VDC					
	Leakage current	I/P to O/P < 250μA					
Control Method	1-10V(0-10V)dimming	0-10Vdc, Port source current 0.1mA typical					
	PWM dimming	PWM Signal dimming Duty: 0- 99%,0.25KHz-2KHz, Voltage amplitude:3-10V					
	Resistance dimming	0-100/N Kohm (N=driver quantity for synchronized dimming operation)					
	Output Dimming range	Output duty:1%-100%,1.38KHz, Dim-to-off					

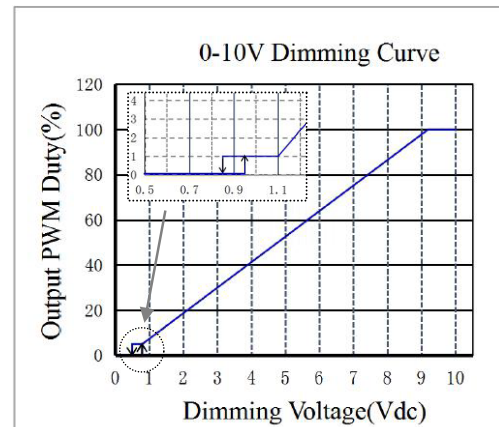
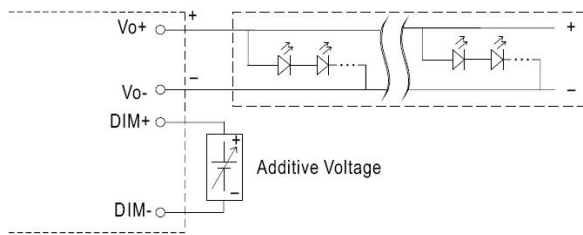
Parameters

Category	Item	Technical Norm	
Environment	Ta/Operation Temperature	-25.....+45	
	Ts/Storage Temperature	-40.....+85 °C	
	Tc/Enclosure Temperature For Safety	60W	80 °C
		100W/150W/250W	90 °C
	Humidity	5%.....85%RH	
Construction	Atmosphere	86-108KPa	
	Connection Method	Terminal	
	Cable Terminals	Input	1 terminal block (300V 10A)
		Output 60W	1 terminal block (300V 10A)
		100W/150W/250W	2 terminals block (300V 10A)
	Dimming	1terminals block(min.150V/10A)	
		Independent	
	Installation	Independent	
	Input Wire Cross Section	0.75mm ² -1.5 mm ²	
	Output Wire Cross Section	60W	1*0.75mm ² -1.5 mm ²
		100W/150W	2*0.75mm ² -1.0 mm ²
		250W	2*0.75mm ² -1.5 mm ²
	Dimming Wire Cross Section	60W/250W	1*0.5mm ² -1.5mm ²
		100W/150W	1*0.5mm ² -1.0 mm ²
	Output Cable Length	Max. 3M	
	Cable diameters range	Input	2.2-4mm or 9.5-10.5mm
		Output & Dimming	2.2-4mm
Standards	Dimension	60W	300*30*16mm (L*W*H)
		100W/150W	350*30*18mm (L*W*H)
	Certification	250W	400*40*22mm (L*W*H)
		CE, ENEC, SAA	
		EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1	
Standards	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014	
		EN61000-3-3:2013, EN61547:2009	
	Performance	EN62384	
	Surge	L-N:2KV	
	RoHS	2011/65/EU	
Others	MTBF	≥250KHours,Ta=25 °C(MIL-HDBK-217F)	
	Audible Noise	<25dB @ 10cm distance, 20dB background	
	Life Time(@Ta max)	60W	≥65K Hrs
		100W	≥60K Hrs
		150W	≥55K Hrs
		250W	≥52K Hrs
	Warranty	3 years	

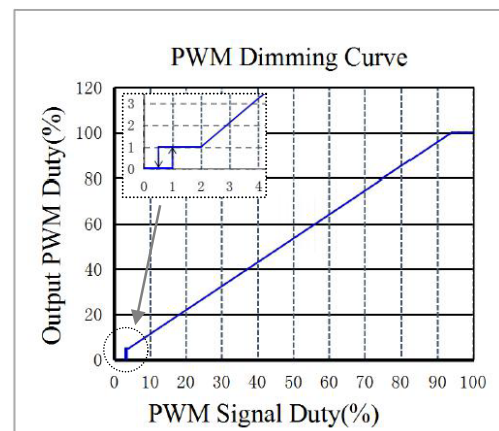
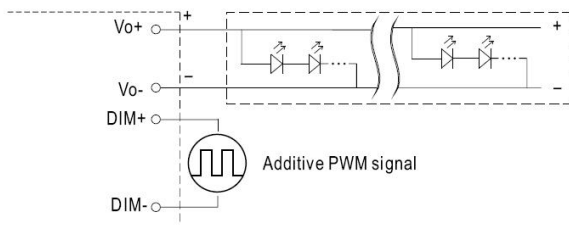
3 in 1 Dimming Function

Output power can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 -10VDC, or PWM signal or resistance.

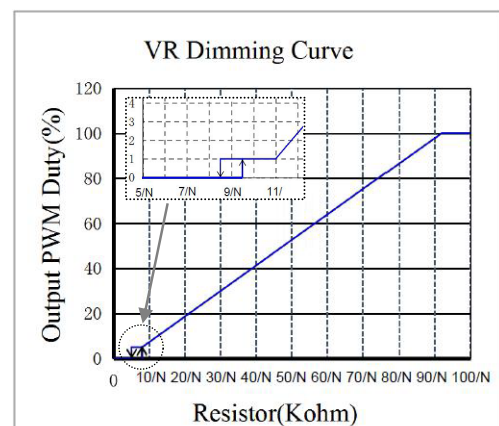
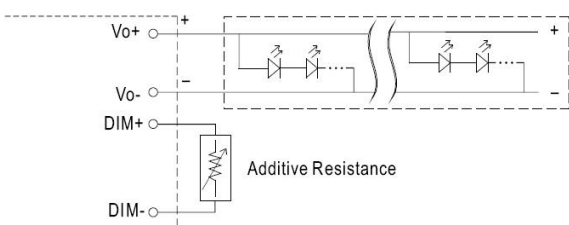
Applying additive 0 ~ 10VDC



Applying additive PWM signal (Duty: 0- 99%,frequency range 0.25KHz ~ 2KHz,Voltage amplitude:3-10V)



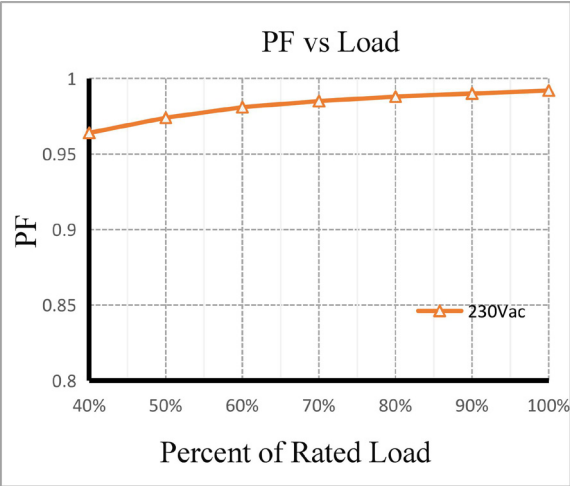
Applying additive resistance



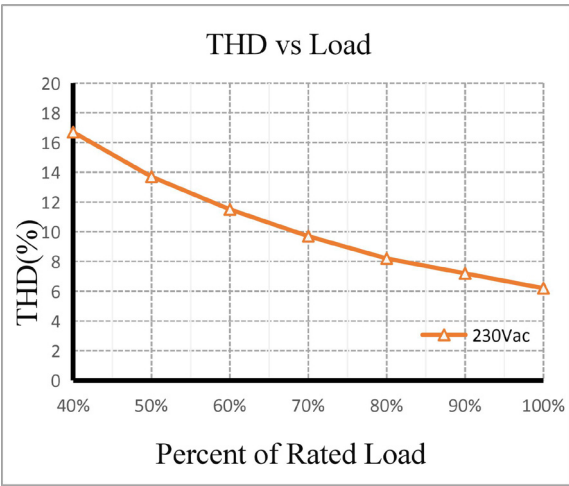
(N=driver quantity for synchronized dimming operation)

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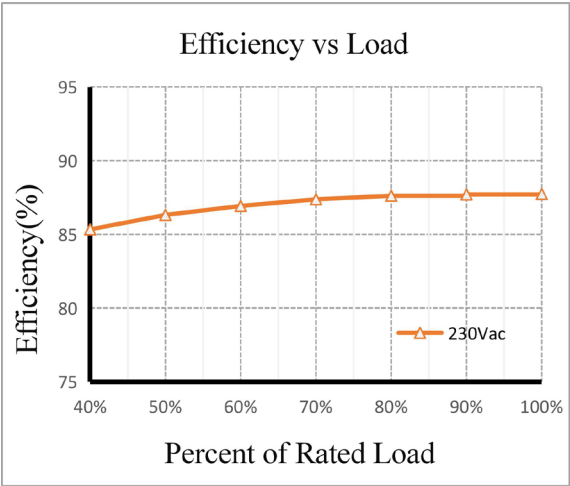
60W



60W

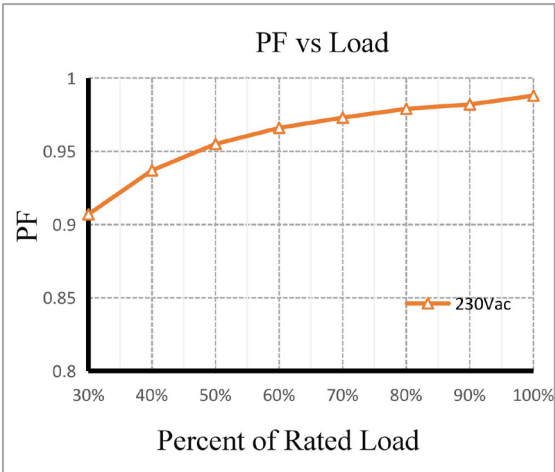


60W

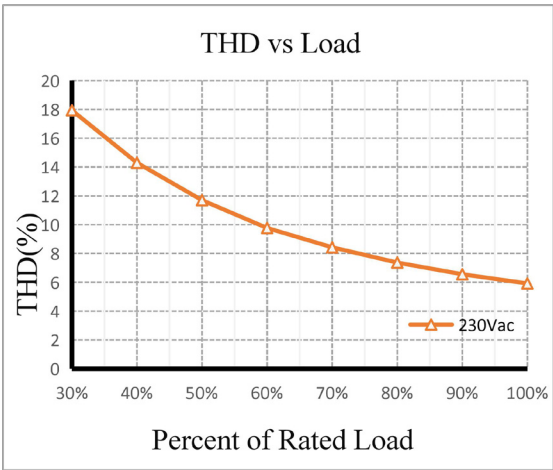


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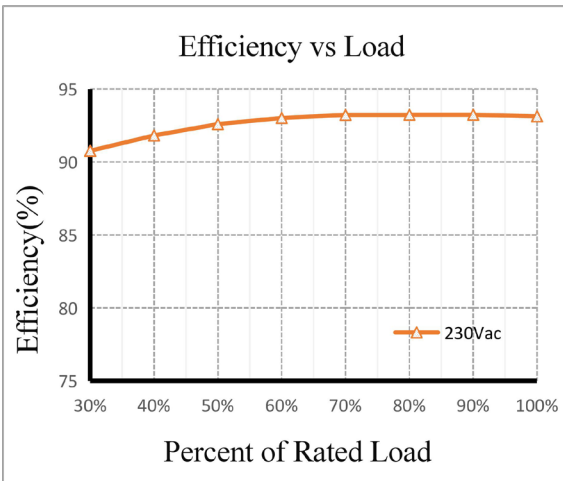
100W



100W

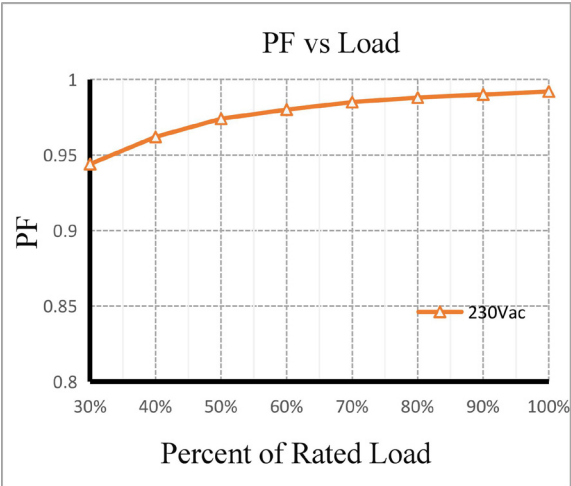


100W

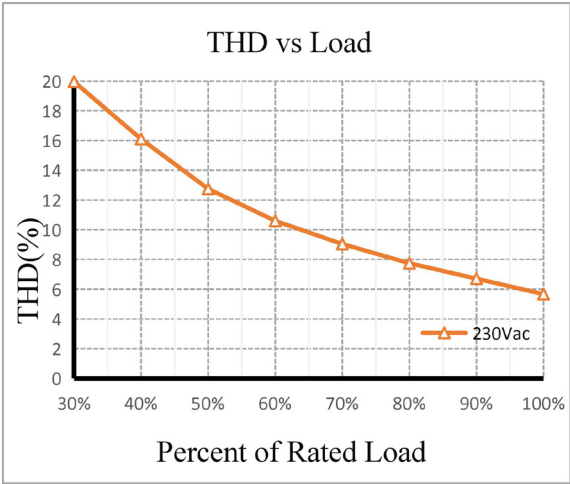


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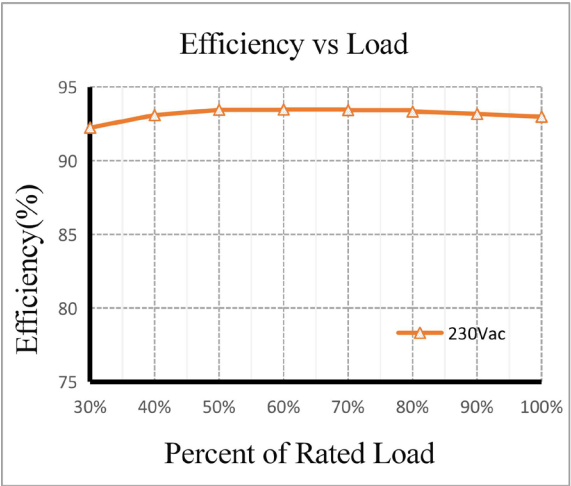
150W



150W

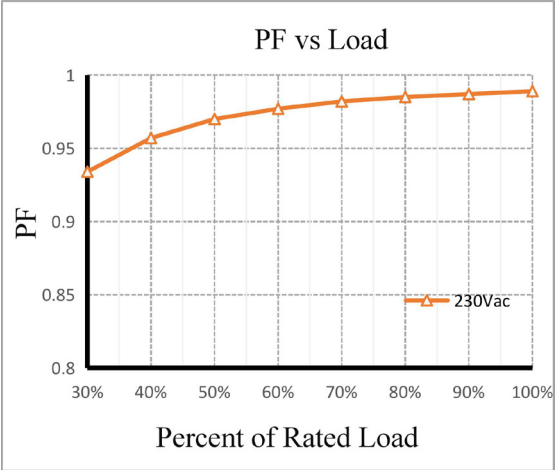


150W

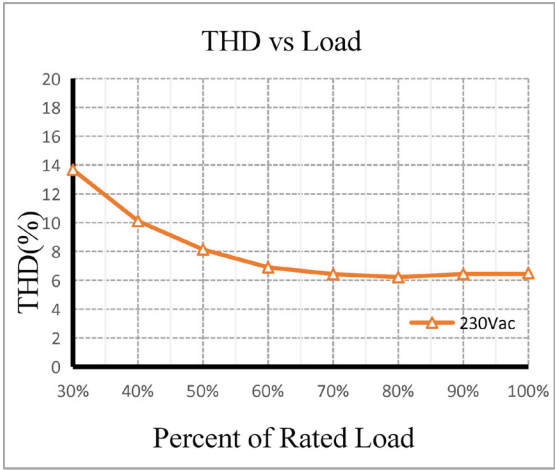


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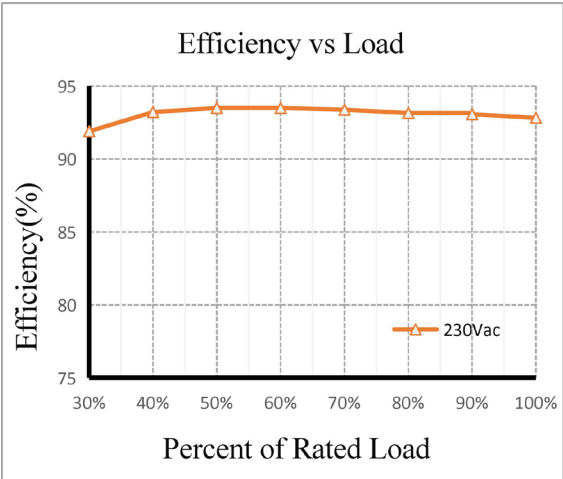
250W



250W



250W



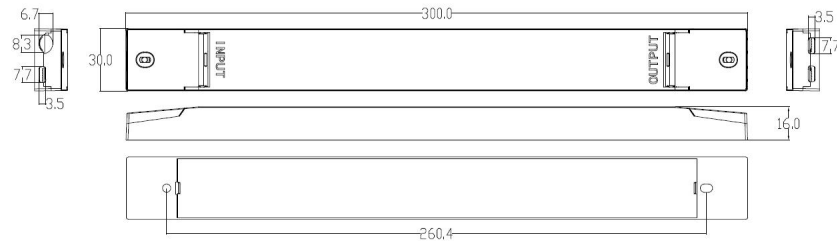
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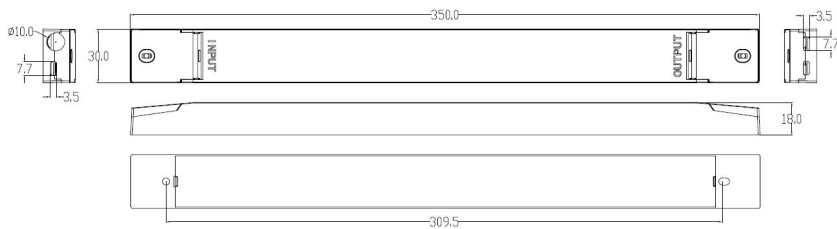
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Dimension (Unit : mm)

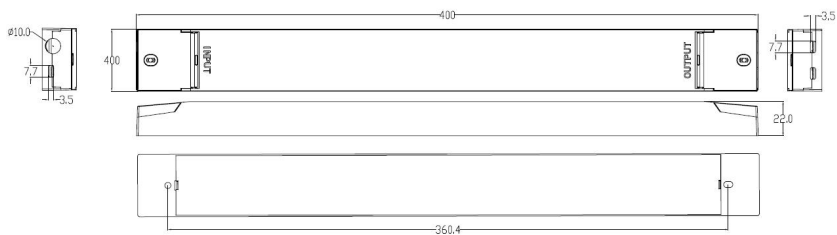
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Remarks

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.
2. LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
3. Warranty Mentioned is a limited warranty only to the original purchaser or to the first user @ Tc max from the date of manufacturing when properly installed and operated under normal conditions of use.
4. Please refer our website for details warranty conditions.
5. For further details, kindly refer our website. www.lucevita.in, or email info@lucevita.in.