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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			
	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			
Input	THD	$\leq 7\%$ ≤ 230 VAC, Rated Load, see graphs			
	Standby Power Consumption	$\leq 0.5W$, @230VAC, Dim to OFF			
	Inrush Current	Model	IP	IP(typ.)	Duration time
		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 $\pm 3\%$			
	Output Voltage Ripple	60W/100W/150W/250W			
	Line Regulation	$\pm 1\%$			
	Load Regulation	$\pm 2\%$			
	Overshoot	<105%Vo			
	Start-up Time	$\leq 0.5S$ (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	
Protection	Efficiency	60W	$\geq 86\%$	88% typ.	230VAC, Rated Load, at output terminals, see graphs
		100W	$\geq 91\%$	93% typ.	
		150W	$\geq 91\%$	93% typ.	
		250W	$\geq 91\%$	93% typ.	
	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°C, Auto Recovery (only for 100W/150W/250W)			
	Insulation voltage	I/P to O/P, 3KVAC/5mA/1min			
Control Method	Insulation resistance	>100M ohm @ 500VDC			
	Leakage current	I/P to O/P < 250 μ A			
	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)			
Control Method	Output Dimming range	Output duty:1%-100%, 1.38KHz, Dim-to-off			

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Parameters

Category	Item	Technical Norm	
Environment	Ta/Operation Temperature	-25....+45	
	Ts/Storage Temperature	-40....+85°C	
	Tc/Enclosure Temperature For Safety	60W 100W/150W/250W	80°C 90°C
	Humidity	5%....85%RH	
Construction	Atmosphere	86-108KPa	
	Connection Method	Terminal	
	Cable Terminals	Input Output 60W 100W/150W/250W	1 terminal block (300V 10A) 1 terminal block (300V 10A) 2 terminals block (300V 10A)
		Dimming	1terminals block(min.150V/10A)
	Installation	Independent	
	Input Wire Cross Section	0.75mm ² -1.5 mm ²	
	Output Wire Cross Section	60W 100W/150W 250W	1*0.75mm ² -1.5 mm ² 2*0.75mm ² -1.0 mm ² 2*0.75mm ² -1.5 mm ²
	Dimming Wire Cross Section	60W/250W 100W/150W	1*0.5mm ² -1.5mm ² 1*0.5mm ² -1.0 mm ²
	Output Cable Length	Max. 3M	
	Cable diameters range	Input Output & Dimming	2.2-4mm or 9.5-10.5mm 2.2-4mm
Standards	Dimension	60W 100W/150W 250W	300*30*16mm (L*W*H) 350*30*18mm (L*W*H) 400*40*22mm (L*W*H)
	Certification	CE, ENEC, SAA	
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1	
Others	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	
	MTBF	≥250KHours,Ta=25°C(MIL-HDBK-217F)	
Others	Audible Noise	<25dB @ 10cm distance, 20dB background	
	Life Time(@Ta max)	60W 100W 150W 250W	≥65K Hrs ≥60K Hrs ≥55K Hrs ≥52K Hrs
			@230VAC , full load, see graphs.
			End of Life: Failure Rate<10%.
	Warranty	3 years	

Constant Voltage Analog Series

Product Specification Sheet

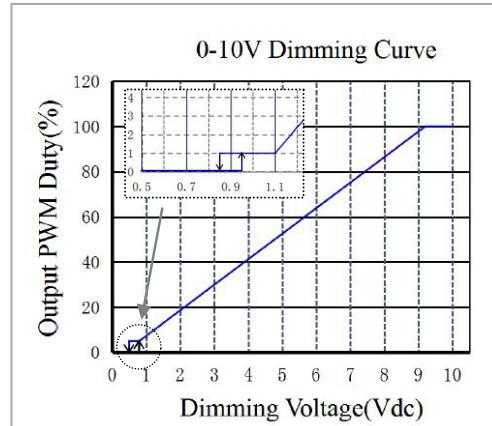
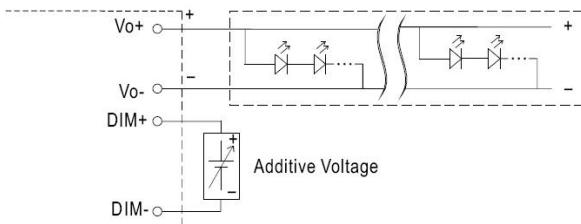
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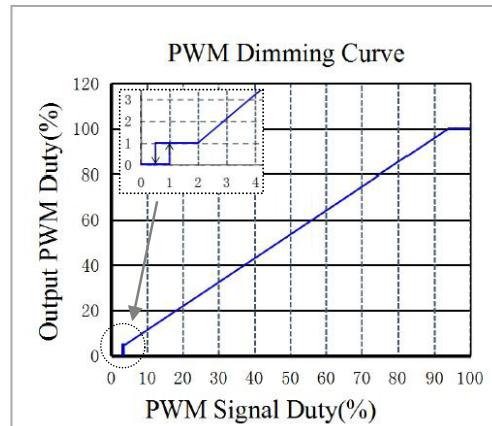
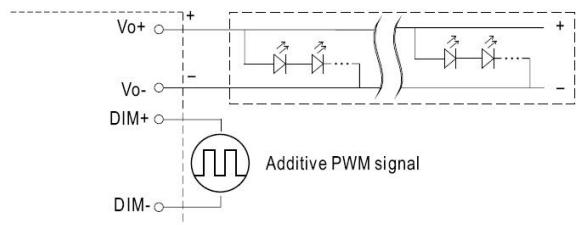
3 in 1 Dimming Function

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

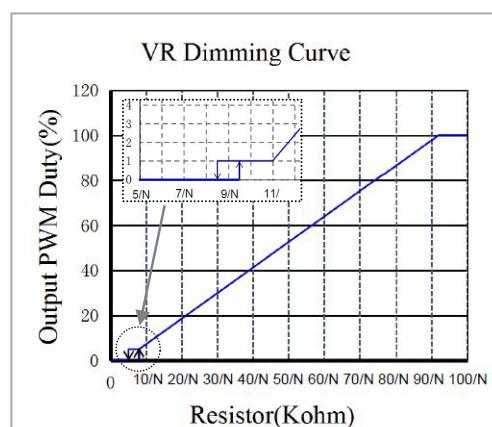
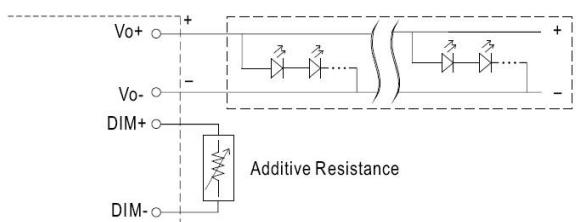
Applying additive 0 ~ 10VDC



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



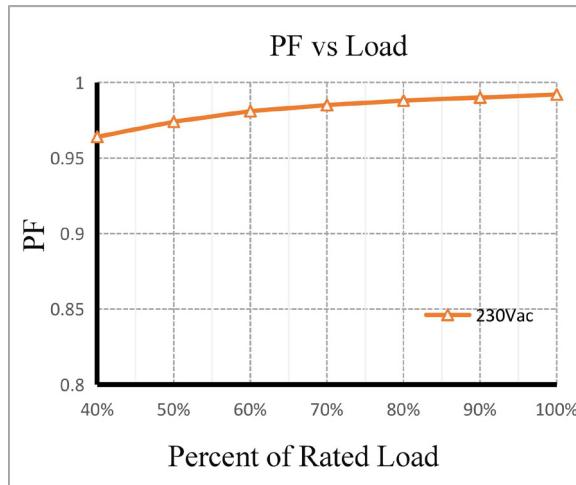
Applying additive resistance



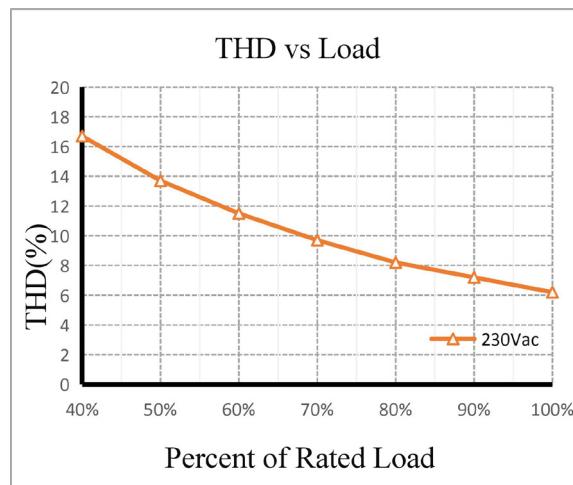
(N=driver quantity for synchronized dimming operation)

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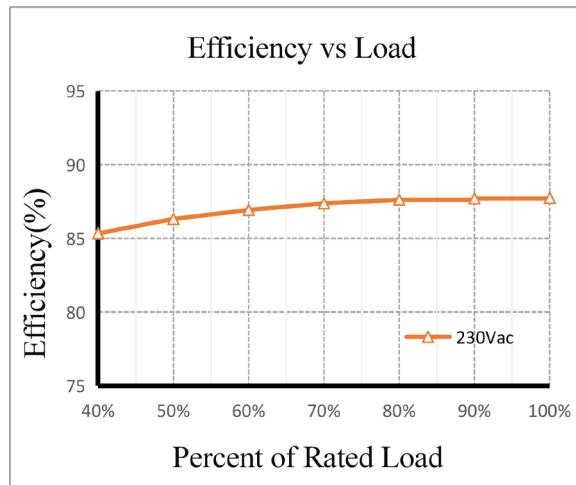
60W



60W



60W

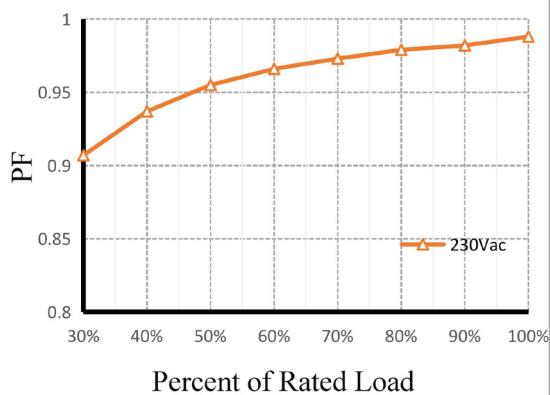


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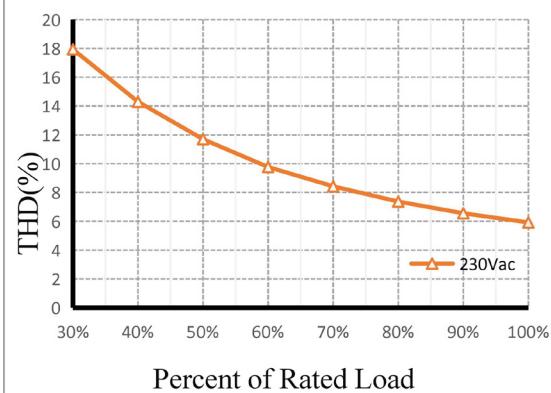
100W

PF vs Load



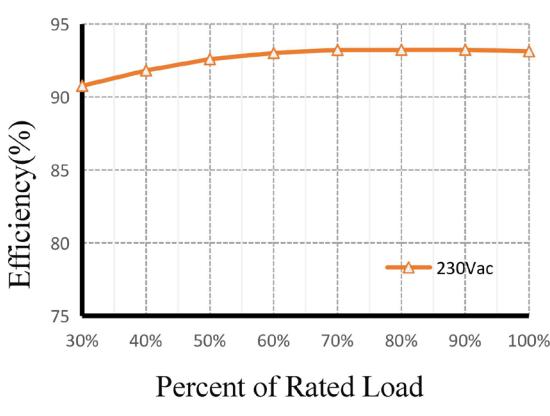
100W

THD vs Load



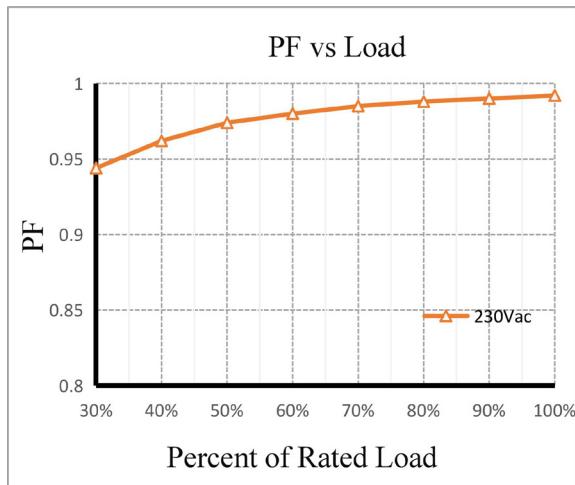
100W

Efficiency vs Load

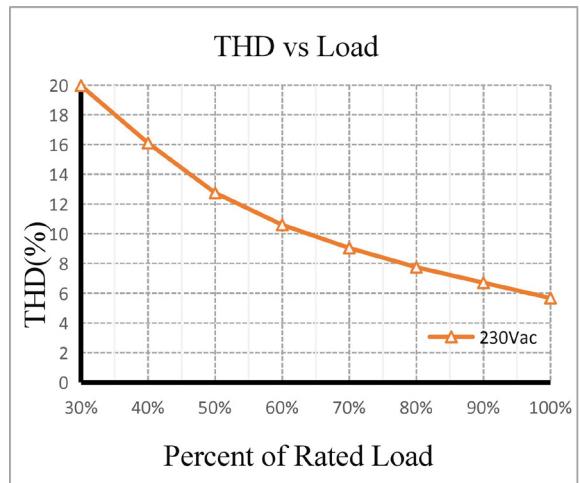


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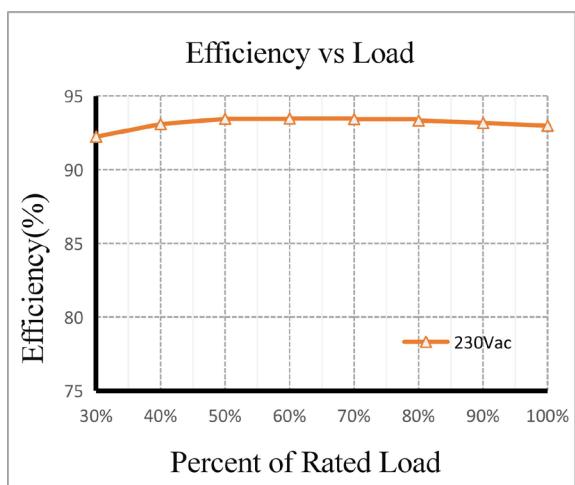
150W



150W



150W



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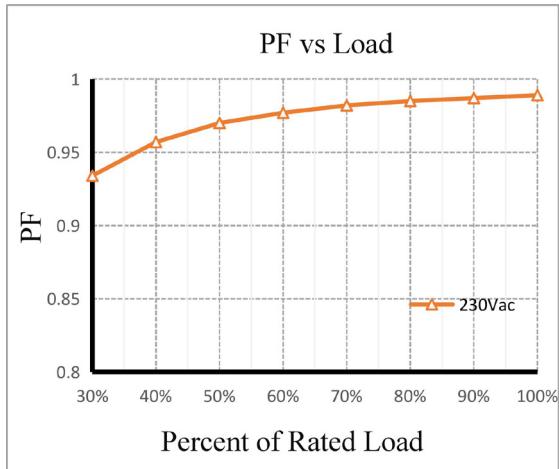
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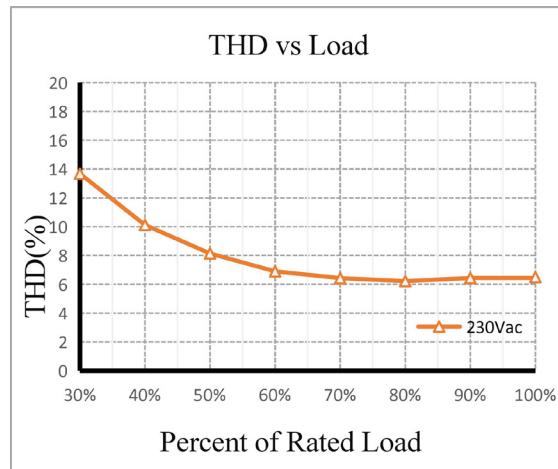
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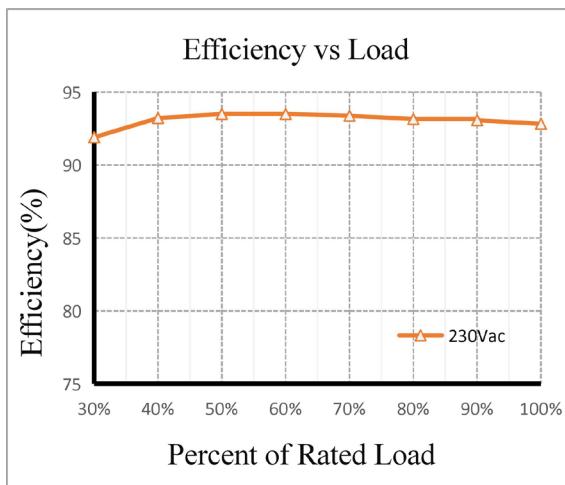
250W



250W



250W



Constant Voltage Analog Series

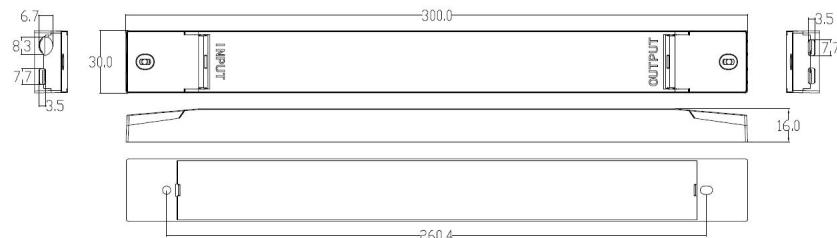
Product Specification Sheet

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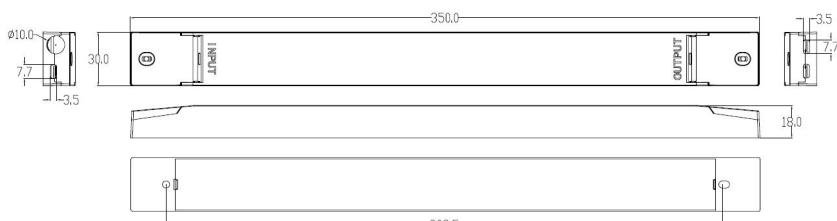
Dimension (Unit : mm)

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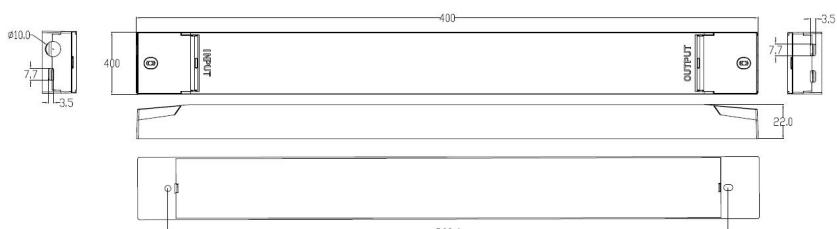


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Remarks

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.