



Constant Voltage Dimmable Driver

Model: LV150W24 DALI



Model	Output Current	Input Current	Input Power	Output Power Range	PF (230V Full Load)	Efficiency (230V Full Load)	Output Voltage
LV150W24 DALI	6250mA	≤0.85A	≤165W	0-150W	≥0.95	≥92%	24V

* Test result @230V, 50Hz, Full Load.








1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	DALI
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class I
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Range of DC Input Voltage	176-280VDC
	Frequency	50/60Hz
	Input Current	≤0.85A
	Input Power	≤165W
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC (Dim to off)
	Inrush Current	≤82A/300us (230VAC, full load)
Connected quantity of 16A Breaker	3pcs/type B ; 6pcs/type C @ 230Vac	
Output	Output Voltage	24VDC+/-5%
	No Load Voltage	26VDC Max.
	Output Current	0-6250mA
	Max. Output Power	150W
	Efficiency	≥92% (230VAC, full load)
	Voltage Ripple	2% (Vmax-Vmin) / (Vmax+Vmin)
	Current Accuracy	N/A
	Started Delay Time	≤0.5S (230VAC, full load)
Control Method	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable

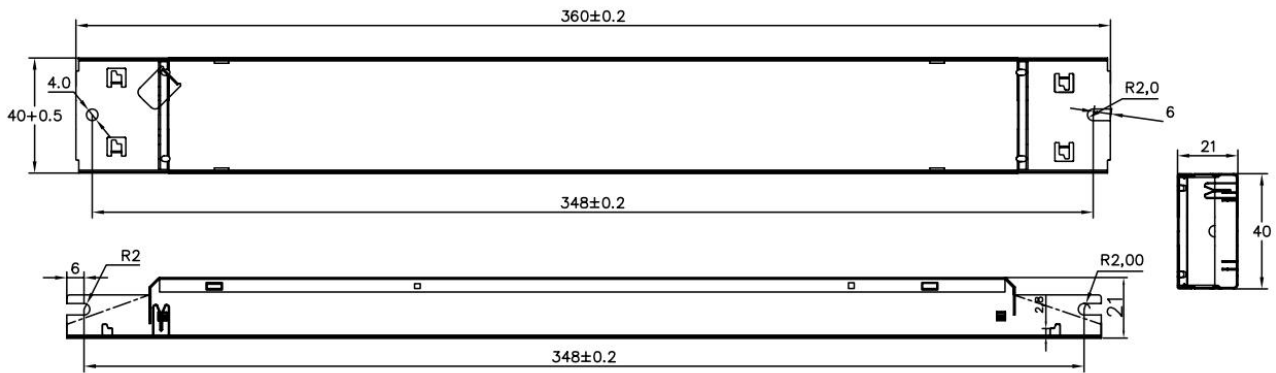
	Dimming range	DALI dimming: 1%-100% (1KHz)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S, 1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25....+50°C
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.75-1.5 [□]
	SEC Wire preparation	0.75-1.5 [□]
	Dimension	360*40*21mm (L*W*H)
Standards	Certification	ENEC/CE/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
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014,EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/1KV (L/N)-PE/2KV
Others	RoHS	2011/65/EU
	Life Time	50000h @Ta / Tc
	Warranty	5years , F.R. < 10000ppm

Remark: 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.

2. Label

<input type="checkbox"/> L <input type="checkbox"/> ⊕ <input type="checkbox"/> N	 KGP KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	LED Dimmable Driver LV150W24 DALI wire preparation 	Input Voltage:220-240Vac Input Frequency:50/60Hz Power Factor(A):≥0.95 Prange=0-150W I _{in} ≤0.85A	U _{rated} =24Vdc I _{range} =0-6250mA T _c :85°C T _a :-25to+50°C For LED modules Only	etc 	   	<input type="checkbox"/> SELV <input type="checkbox"/> DA <input type="checkbox"/> DA
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3. Dimension (Unit: mm)



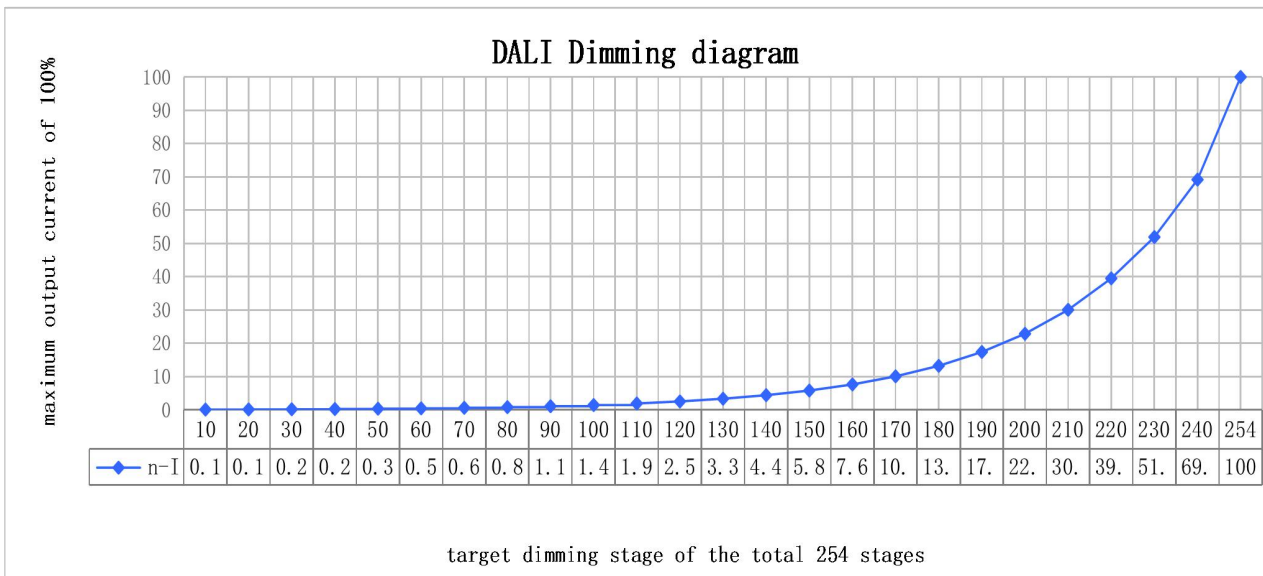
4. DALI dimming curve

4.1 formula for DALI dimming.

$$X(n) = 10^{\left\{ \left[\frac{(n-1)}{253/3} \right] - 1 \right\}}$$

Here, n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



5. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
410*270*190	25	0.39	9.75	10.31

6. Wiring Diagram

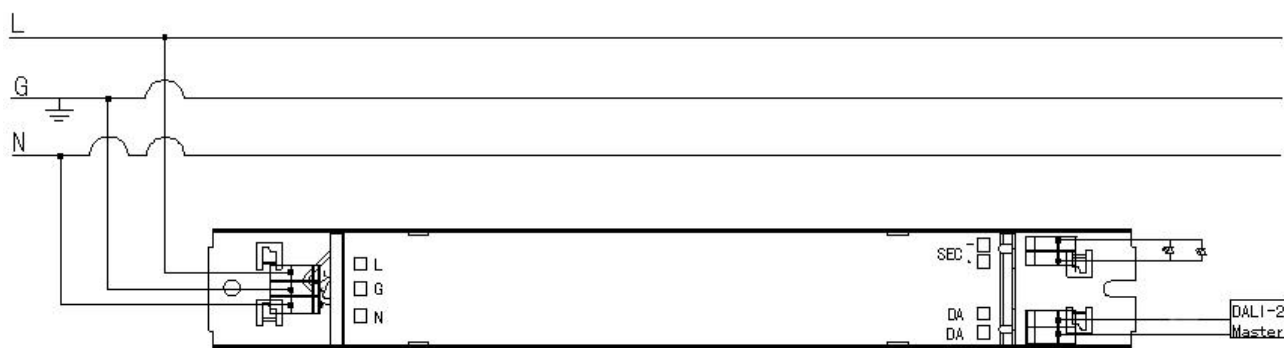


Fig. A:LV150W24 DALI