

Constant Current Linear DALI Dimmable

Product Specification Sheet

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LC50W300-1050 DALI NFC

Make: KGP

General Benefits

DC Output current setting from 300-1050 mA
via NFC
DALI-2 DT6
Flicker Free and smooth dimming light output
1% - 100% Dimming Range
Linear Shape with Metal Body Housing
High Efficiency & Low PF
Life upto 1,00,000 Hrs
5 Years Warranty



Application

Linear Lights

Approvals



Lucevita LED Power supply are with high reliability in linear housing having best surge protection, THD, Ripple Current in the industry.

Drivers generally used in Linear or customized profile light application luminaires for residential, retail and Office space lighting .

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Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI-2 / Touch Dim
	Dimming Range	Primary PUSH & DALI Dimming 1%-100%
	IP Grade	IP20
Input	Insulation Class	Class I
	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Input Current	≤0.35A max
	Input Power	≤56.6W max
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤8.5% (230VAC, full load)
	Standby Power Consumption	≤0.45W @230VAC (DALI system DIM to off)
	Inrush Current	≤22A/16us (230VAC, full load)
	Connected quantity of 10A Breaker	9pcs/type A ;14pcs/type B ;23pcs/type C
	Connected quantity of 16A Breaker	14pcs/type A ;23pcs/type B ;36pcs/type C
	Connected quantity of 20A Breaker	18pcs/type A ;28pcs/type B ;45pcs/type C
Output	Ripple requirement (Flickering-Free)	Flicker value: less than 3% for whole dimming range
	Output Voltage Range	20-50VDC@300-800mA; 20-48VDC@850-1050mA
	No Load Voltage	60VDC Max
	Output Current	300-1050mA (by NFC setting)
	Max. Output Power	50.4W
	Efficiency	≥89% (230VAC, full load@max current)
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	Output PstLM (at full load)	≤1
	Output SVM (at full load)	≤0.4
	Starting Time(AC mode)	≤0.8S (230VAC, full load, by DALI system)
	Starting Time(DC mode)	≤0.4S
	Switching over time(AC/DC)	≤0.4S
Control Method	PUSH dimming	PUSH dimming (Max. lead wire length : 20m,same port of DALI)
	DALI function	DALI dimming (Max. lead wire length : 30m)
		logarithm or linear dimming curve selectable
	Dimming range	DALI dimming: 1%-100%
Protection	NFC current setting	The output current can be set within the total value range in 1-mA-steps. Output current is mean value. Setting is by KGP's software APP/APK/PC with FEIG equipment or mobile phone.
	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	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	< 700μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25.....+50° C
	Ts/Storage Temperature	-25.....+85° C
	Tc/Enclosure Temperature	85° C
	Humidity	10%....90%RH
Construction	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
	Installation	Built-in
	PRI Wire preparation	0.5-1.5 / 8-9mm
	SEC Wire preparation	0.5-1.5 / 8-9mm
	DALI Wire preparation	0.5-1.5 / 8-9mm
	Dimension	280*29.4*21mm (L*W*H)

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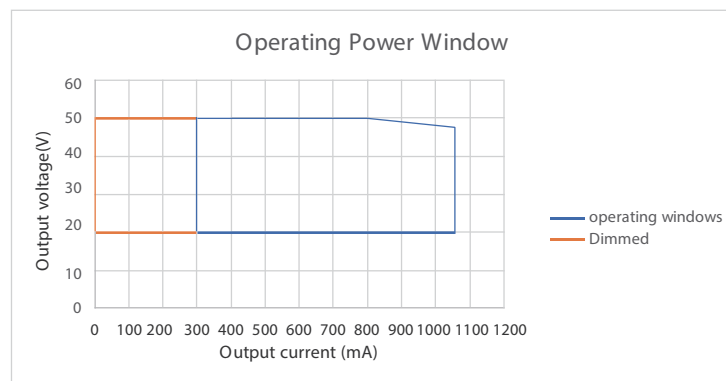
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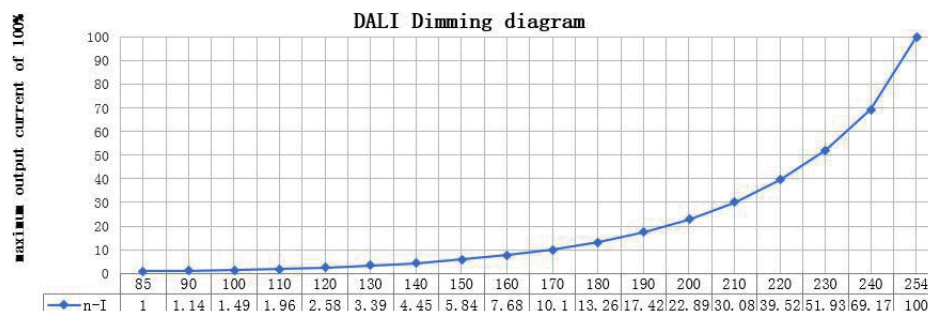
Parameters

Category	Item	Technical Norm
Standards	Certification	CE/ENEC/SAA/UKCA
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018;
		AS/NZS61347.1:2016; BS EN61347-1:2015/A1:2021;
		BS EN61347-2-13:2014/A1:2017;
	EMC Standards	AS/NZS CISPR 15:2011 AS CISPR 15:2017 ;
	Performance	EN 62384
	DALI performance	EN 62386-101 (DALI-2)
		EN 62386-102 (DALI-2)
		EN 62386-207 (DALI-2, including part 251, 252, 253)
	Surge	L-N/2KV (L/N)-PE/4KV
Others	RoHS	2011/65/EU
	Life Time	50000h T _c =85° C
		75000h T _c =80° C
		100000h T _c =75° C
	Warranty	5years, F.R. < 10000ppm

Output Power Window

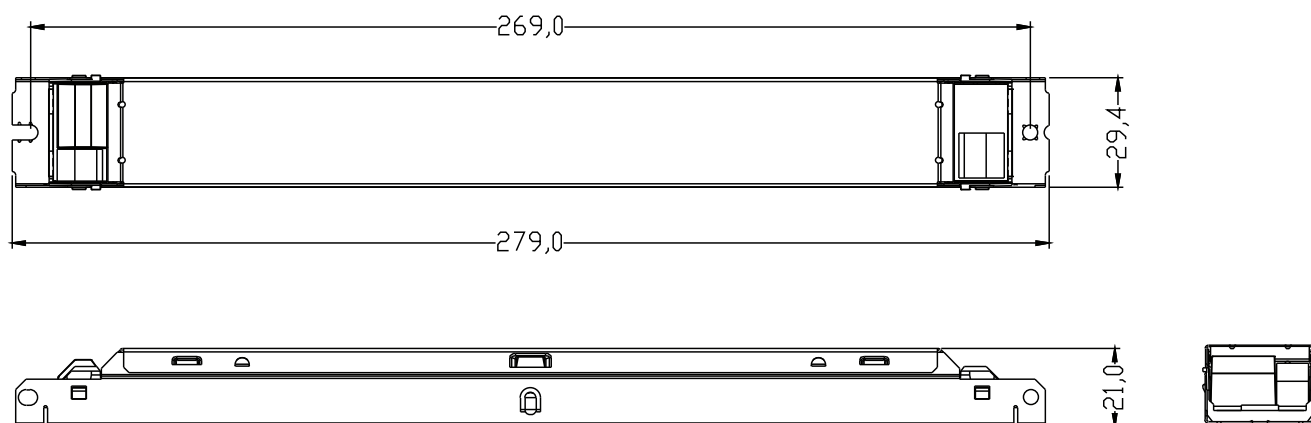


DALI Dimming Curve



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Dimension



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.