CC48W1050-1200CG DALI

Constant Current Dimmable Driver

Model: CC48W1050-1200CG DALI

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC48W1050-1200CG DALI	1050mA	≦0.27A	≦50W	29.4-42W	≧0.92	≧87%	28-40V	55V
	1100mA	≦0.29A	≦51.8W	30.8-44W		≧88%		
	1150mA	≦0.3A	≦54W	32.2-46W	≧0.95			
	1200mA	≦0.31A	≦56.8W	33.6-48W				

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

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI 2
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class Ⅱ
Input	Rated Input Voltage	220-240VACor 230-280VDC
	Range of Input Voltage	198-264VAC
	Frequency	50/60Hz
	Input Current	≤0.31A (230VAC, full load)
	Input Power	≤56.8W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC (Dim to off)
	Inrush Current:	≤25A/300us (230VAC, full load)
	Connected quantity of 16A Breaker	19pcs/type B ;32pcs / type C @ 230Vac
Output	Max. Output Power	48W
	Current Ripple（<120Hz）	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Started Delay Time	≤0.5S (230VAC,full load)
Control	PUSH dimming terminal	PUSH dimming terminal (Max. lead wire length：20m,same port of DALI）

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Method	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable
	Dimming range	DALI dimming: 1%-100% , Dim to off .
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20….+50℃
	Ts/Storage Temperature	-40….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%...90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in & Independent
	PRI Wire preparation	0.75-1.5□
	SEC Wire preparation	0.5-0.75□
	Dimension	Independent:172.3*44*30mm (L*W*H) Built in:132.5*44*30.3mm(L*W*H)
Standards	Certification	CE ENEC SAA
	Safety Standards	EN61347-2-13:2014/A1:2017 EN62384:2006/A1:2009,EN 61347-1:2015/A1:2021 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019 EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013/A1:2019 EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 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℃ 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.

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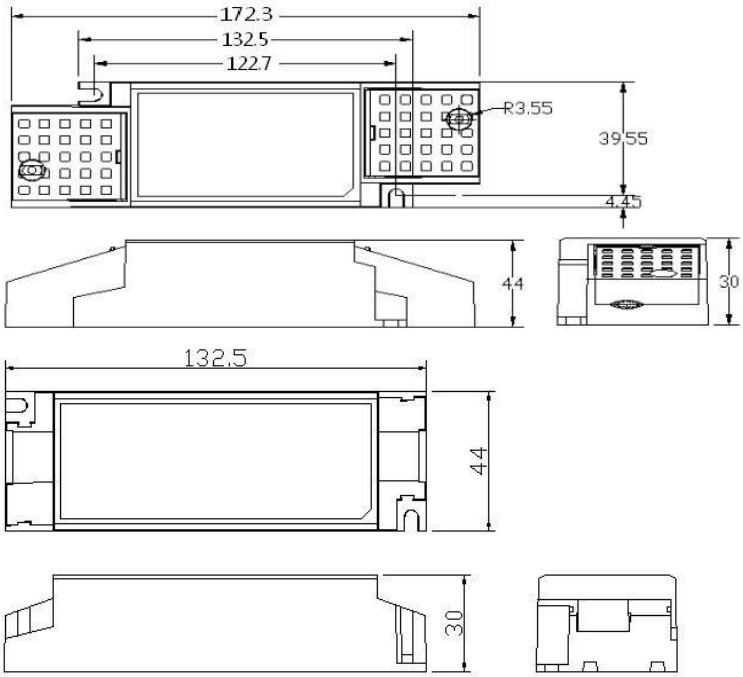
2. Label

3. Dimension （Unit：mm）

Independent type:



Built in type:

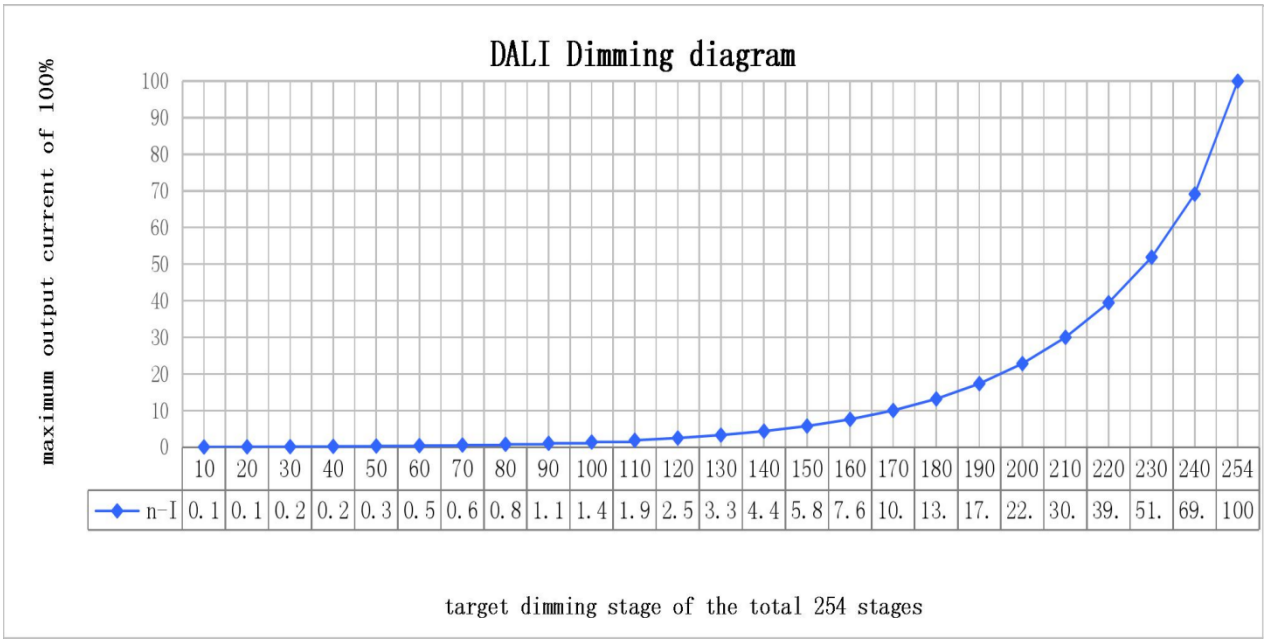
4. DALI dimming curve

4.1 formula for DALI dimming.

X(n)=10^{[(n-1)/(253/3)]-1},

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)
450*240*200	65	0.16	10.4	12.05

6. Wiring Diagram

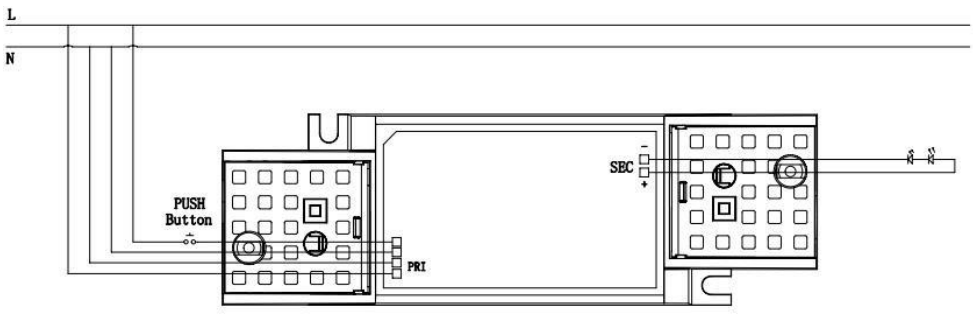


Fig. A: Push Dimming

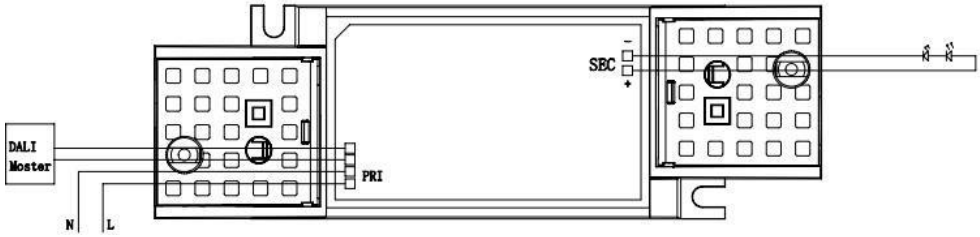


Fig. B: DALI Dimming

7. Wiring instructions

• All connections must be kept as short as possible to ensure good EMI behaviour

• Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)

• Advice the maximum length of output wires is 3 m

• Secondary switching is not permitted（Except for constant voltage）

• Incorrect wiring can damage LED modules.

• The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)