



COMPONENTS



Constant Current Dimmable Driver

Model:LC35W150-700 DALI NFC



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC35W150-700 DALI NFC	150-700mA	≤0.24A	39.4W	3.00-35.00W	≥ 0.95	89%	20-50V dc	60V dc

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

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI-2 / Touch Dim
	Output current setting	Near field communication (NFC)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class I
Input	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	≤0.24A max
	Input Power	≤39.4W 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	≤18A/15us (230VAC, full load)
	Connected quantity of 10A Breaker	11pcs/type A ;17pcs/type B ;28pcs/type C
	Connected quantity of 16A Breaker	17pcs/type A ;28pcs/type B ;44pcs/type C
	Connected quantity of 20A Breaker	22pcs/type A ;35pcs/type B ;56pcs/type C
	Output Voltage	20-50VDC@150-700mA
	No Load Voltage (Uout)	60VDC Max.
	Output Current	150-700mA (by NFC setting)

Output	Max. Output Power	35W
	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%
	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.
Protection	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℃
	Ts/Storage Temperature	-25....+80℃
	Tc/Enclosure Temperature	80℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-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*30*21mm (L*W*H)
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 Tc=80°C
		75000h Tc=75°C
		100000h Tc=70°C

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

☐ L
☐ N
☐ DA
☐ DA


 COMPONENTS


LED Dimmable Driver
LC35W150-700 DALI NFC
 Constant Current Type for LED Only
 Input Voltage:220-240VAC
 Input Frequency:0/50-60Hz
 Range of application
 DC 180-280V

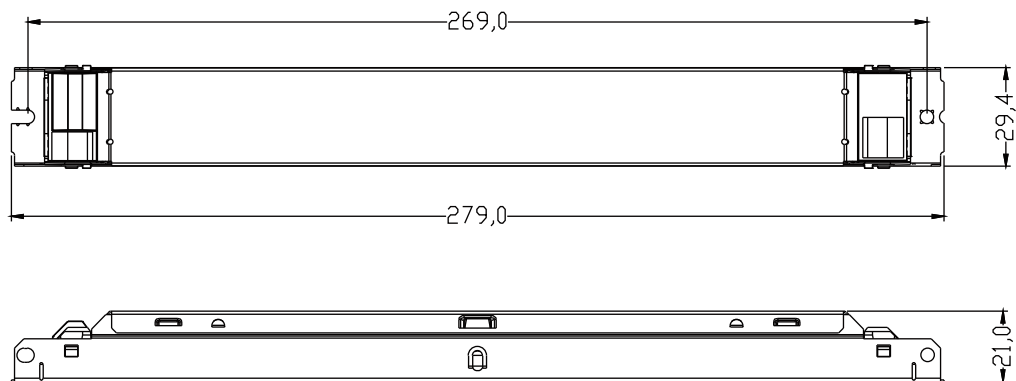
•tc
 Power Factor:≥0.95
 Iin:≤0.24A
 SEC:150-700mA 20-50VDC
 Prange=3-35W
 Uout:60VDC Max.35W
 Tc:80°C Ta:50°C



wire preparation
 8-9mm
 PRI: 0.5-1.5°
 DALI: 0.5-1.5°
 SEC: 0.5-1.5°

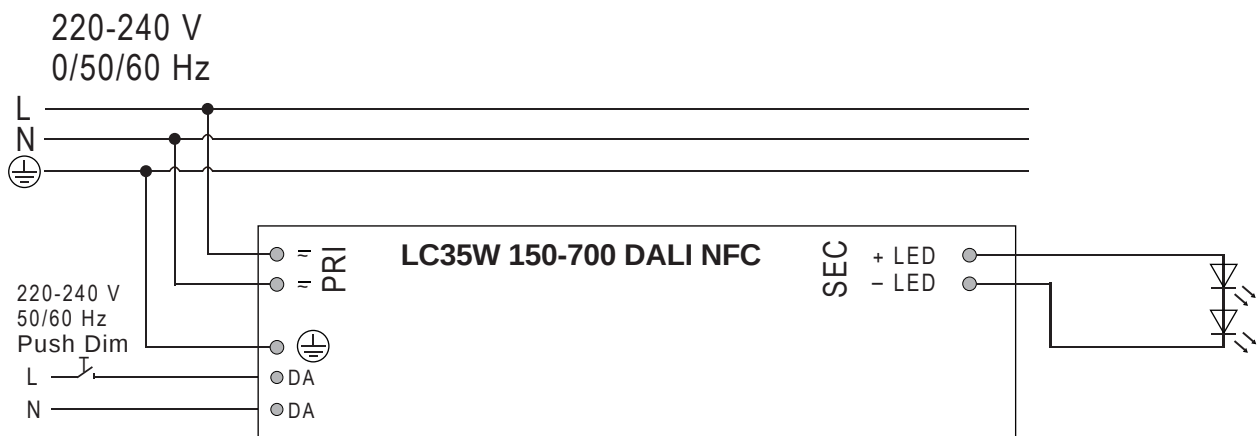
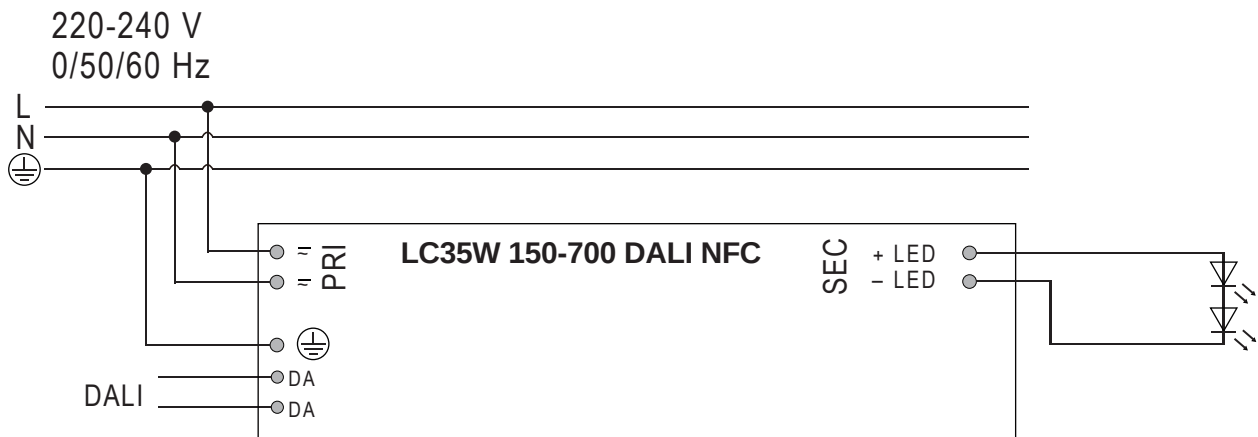
SEC +□
 i □
 NFC)))
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3. Dimension (Unit: mm)

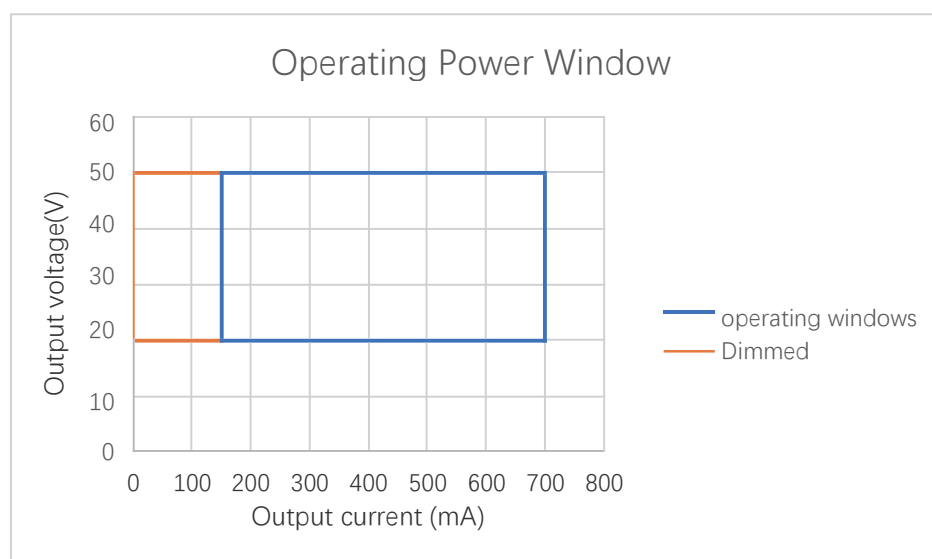


4. Installation / wiring

Circuit diagram



5. Output Power Window



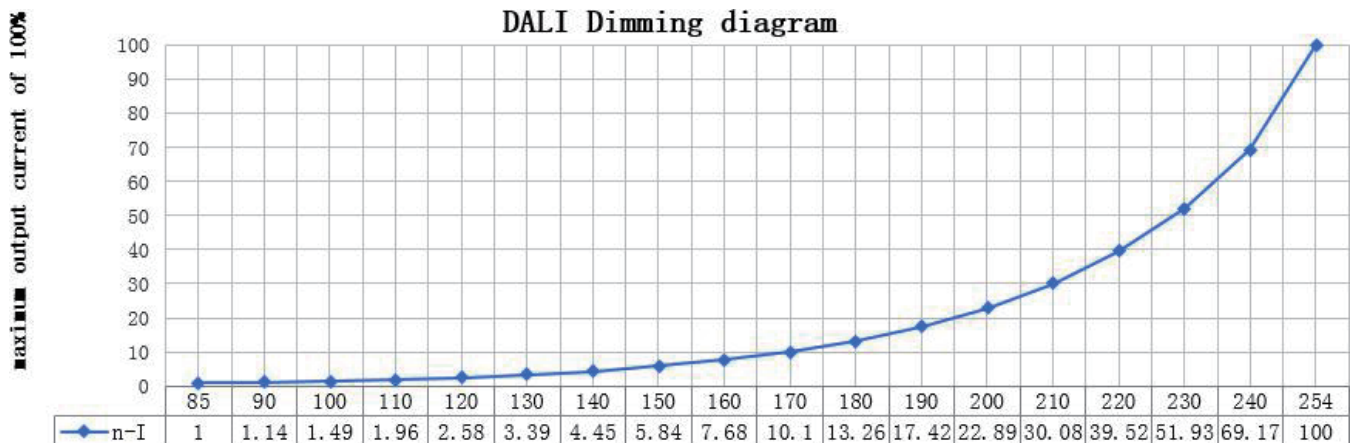
6. DALI dimming curve

formula for DALI dimming.

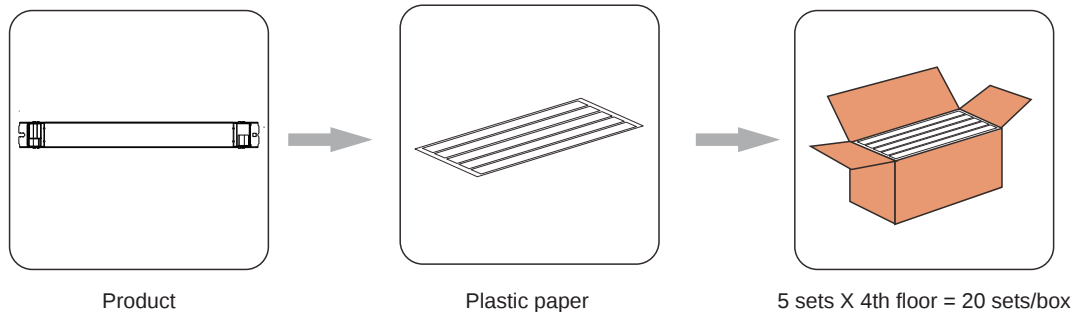
$$X(n)=10^{\{[(n-1)/(253/3)]-1\}},$$

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

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



7. Packing information



Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
290*155*95	20	3.54	0.14	3.68

8. NFC current setting:

T.B.D

9. Push Dim :

9.1 On / off:

Short push (120ms-600ms) on the switch

Stepless dimming: long push (> 0.6sec) on the switch

9.2 Power-on memory function

When the LED driver is powered on, it will restore the memory before the LED driver is powered off. (brightness remembers the brightness after the last dimming is stable, and the brightness during dimming is not memorized)

9.3 Light on/off

If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600ms.

9.4 PUSH Dimming

Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time. After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 1%-100%. The default is to dim when the power is first long-press. If the brightness of the power-on is the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

9.5 Forced synchronization

Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

9.6 PUSH Dimming rate

Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S, and it can also be changed by MAGIC or production software.



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LC35W150-700 DALI NFC

10. REVISION HISTORY

[illegible]