L44C300-1050N-X L44C300-1050N-2X

Constant Current Dimmable Driver

Model: L44C300-1050N-X
L44C300-1050N-2X

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
L44C300-1050N-X L44C300-1050N-2X	300-1050mA	0.25A	49.5W	0.75-44.1W	0.95	88%	2.5-52V	59V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current Dimmable
	Dimming Type	NFC +Casambi/matter/tuya
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of DC Input Voltage	198-280VDC
	Range of AC Input Voltage	198-264VAC
	Frequency	Rate:50/60Hz, Range:47~63Hz
	Power Factor	≥0.95 (230VAC， full load)
	Input Current	≤0.25A (230VAC， full load)
	Input Power	≤49.5W (230VAC， full load)
	THD	≤20% (230VAC， full load)
	Standby Power Consumption	≤0.5W, @230VAC,Dim to OFF(@Casambi/tuya mode) ≤1W, @230VAC,Dim to OFF(@Matter mode)
Output	Output Voltage	2.5-42VDC@ 1050mA 2.5-44VDC@ 900-1000mA 2.5-52VDC@ 300-850mA
	Current Accuracy	±5%
	No load Voltage	59VDC Max.
	Output Current Ripple	±5%
	filcker	SVM ≤0.4，PstLM ≤1.0
	Start-up Time	≤1S (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

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

		44W	≤0.1S	≤0.5S	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%
	Efficiency	≤88% (230VAC， full load)			
Control Method	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)			
	Over Voltage Protection	Auto Recovery			
	Insulation voltage	I/P to O/P,3KVac/5mA/1min			
	Insulation resistance	>100M ohm @ 500VDC			
	Leakage current	I/P to O/P < 250μA			
Environment	Ta/Operation Temperature	-25….+45℃			
	Ts/Storage Temperature	-40….+85℃			
	Tc/Enclosure Temperature	85℃			
	Humidity	10%.... 90%RH			
	Atmosphere	86-108KPa			
Construction	Connection Method	Push-in Terminal			
	Installation	Independent			
	PRI Wire Cross Section	0.5- 1.5□			
	SEC Wire Cross Section	0.5- 1.5□			
	SEC Cable Length	Max. 3M			
	Dimension	162.6*42.5*22.5mm (L*W*H)			
Standards	Certification	CE			
	Safety Standards	EN61347-2-13:2014/A1:2017,EN62384:2006/A1:2009, EN61347-1:2015,AS61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1			
	EMC Standards	EN IEC 55015:2019,EN IEC 55015:2019/A11:2019 EN IEC 61000-3-2:2019,EN61547:2009, EN 61000-3-3:2013/A1:2019			
	Performance	EN62384			
	Surge	L-N:2KV			
Others	RoHS	2011/65/EU			
	Audible Noise	<22dB @ 20cm distance, 14dB background			
	Life Time	50000h @Ta / Tc			
	Warranty	5years， F.R. < 10000ppm			

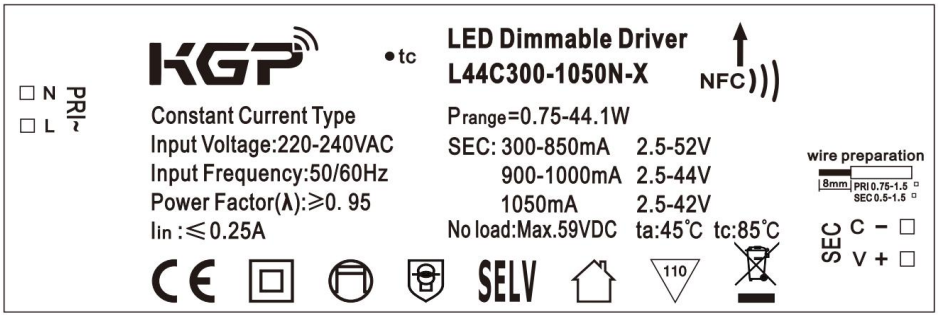
Remark:1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.

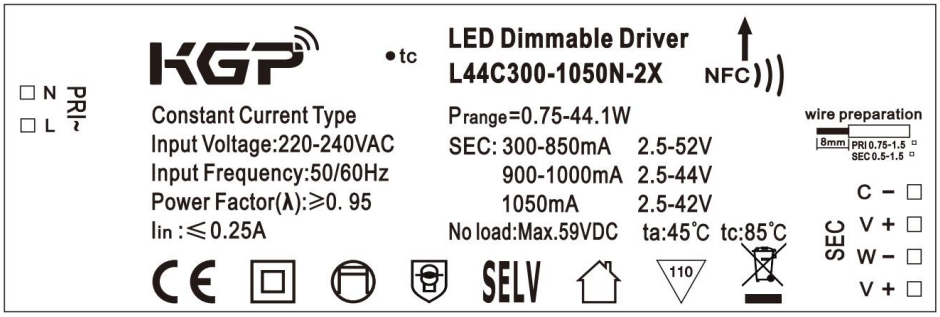
2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

2. Connected quantities of different current Breaker

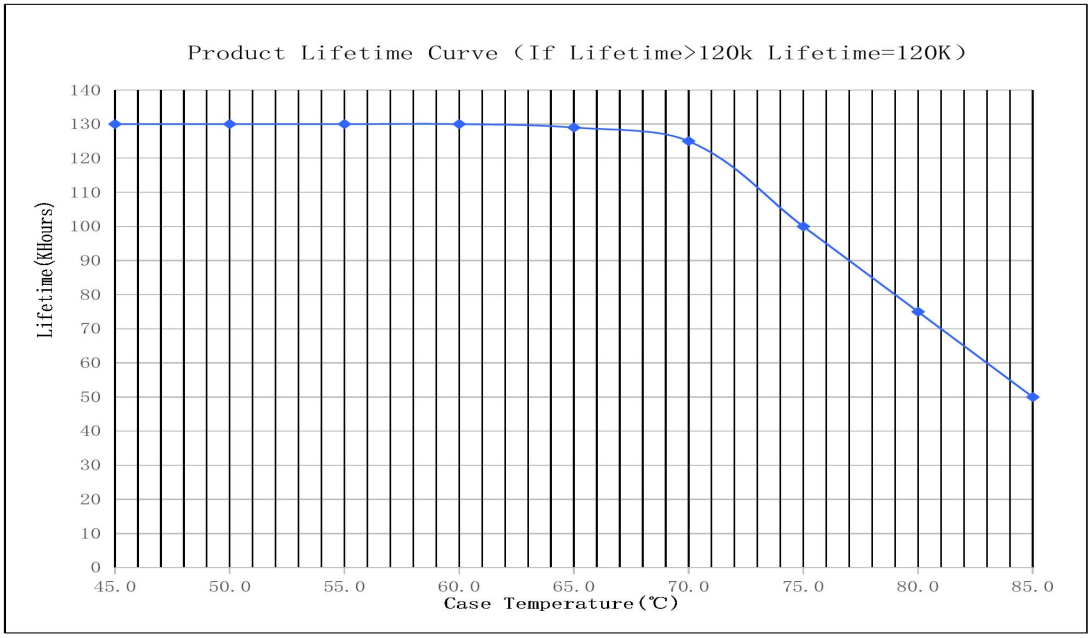
TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		12	16	19	24	30	@230VAC	50	300us
TYPE C		19	25	31	38	48			
TYPE D		31	40	49	61	77			

3. Label



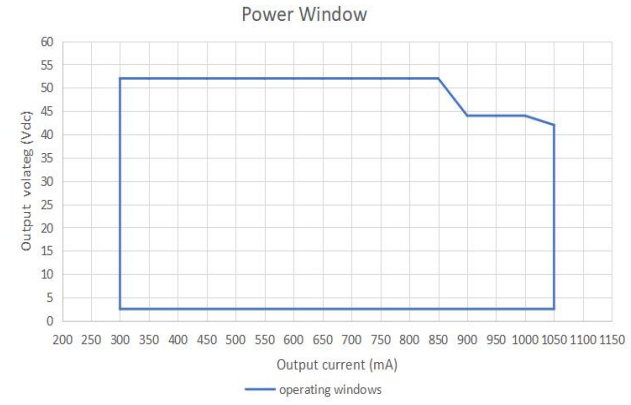
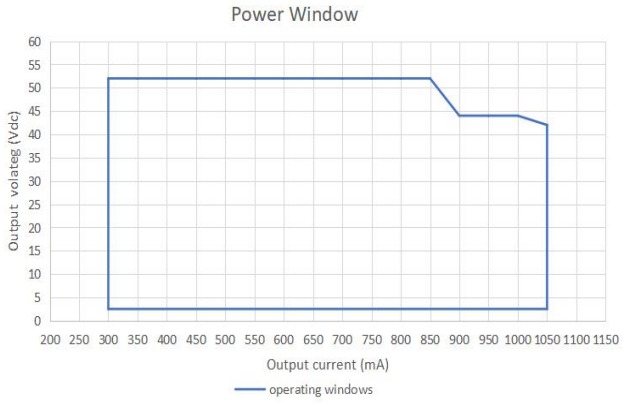


4. Lifetime curve



5. Graph

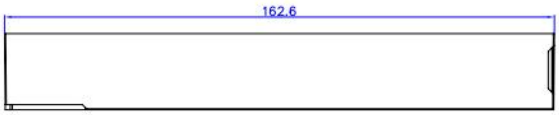
Operating Window

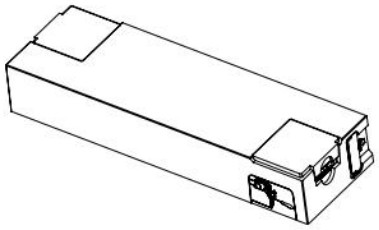
L44C300-1050N-X	L44C300-1050N-2X
	

Typical Efficiency vs. Load (230V 50Hz)

L44C300-1050N-X	L44C300-1050N-2X
	

6. Dimension（Unit：mm）





7. Packing information

Model	Carton L*W*H(mm)	Pcs/Carton	Net eight/ Pcs(kg)	Netweight/ Carton(kg)	Grossweight/ Carton(kg)
L44C300-1050N-X Casambi/matter/tuya	375*245*220	80	T.B.D	T.B.D	T.B.D
L44C300-1050N-2X Casambi/matter/tuya		80	T.B.D	T.B.D	T.B.D

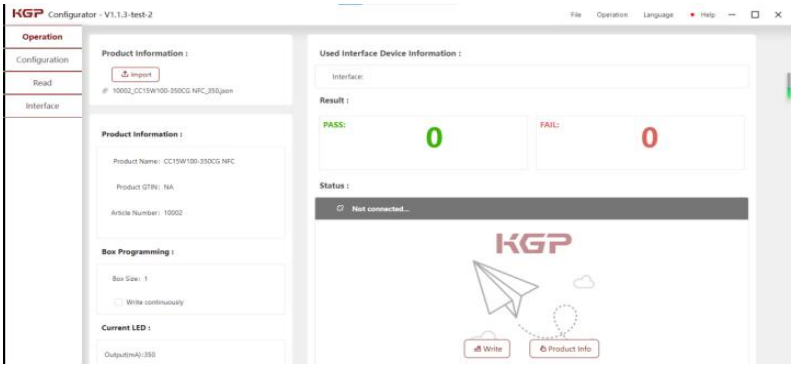
8. IOT module list approved by KGP

1CH	2CH
CASAMBI	CASAMBI
Matter WiFi	Matter WiFi
Matter Thread	Matter Thread
WiFi+BLE	WiFi+BLE
BLE	BLE
Zigbee	Zigbee

9. NFC Reader (optional)

Feature:

Easily on-line read a output current from a driver or write a new current data to a driver throughout KGP NFC reader within few seconds.



Remark: Please scan the QR code with your browse.

10. Perform operations on IOS APP

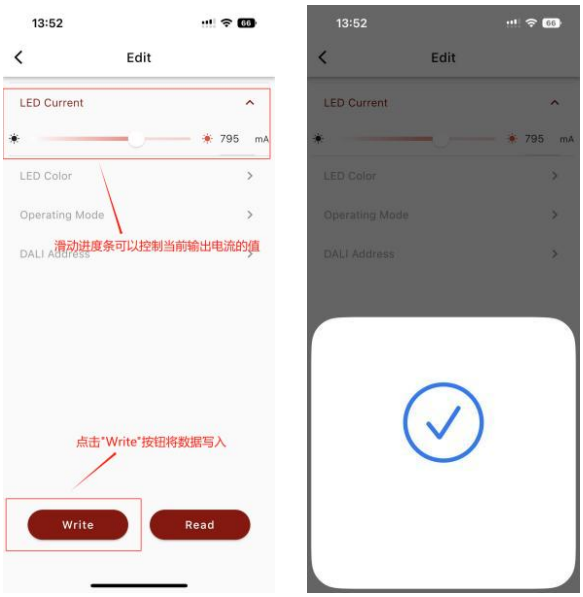
1) Search for "KGP NFC" software in Apple App Store and install the app (this version is the official version, the value can be read only after the product parameters are fully confirmed, if you need to read and write in the development stage, you need to share the permission code with Hong Yinghui company through 1OS mailbox to download the beta version

2) Open the software and click the "NFC" button in the lower left corner to enter the NFC read and write page

3) Click the "read" button in the lower left corner to enter the NFC scan

4) Take SC42W300-1050CG-6 DT8-NFC as an example. After successful scanning, enter the interface as shown below, which will display the product name and output current of this section -> Click the "Edit "button in the lower right corner to enter the editing page

5) The progress bar under the sliding LED Current can control the value of the output current of the plate 1 channel, generally after the sliding is completedIt will automatically enter the page of burning data, and the "√" sign will be displayed if the burning is successful. (Below is the content of the beta version)



11. Wiing 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.)

12. REVISION HISTORY

DATE	REV	REMARK
2024-1-18	V1.0	Initial release.