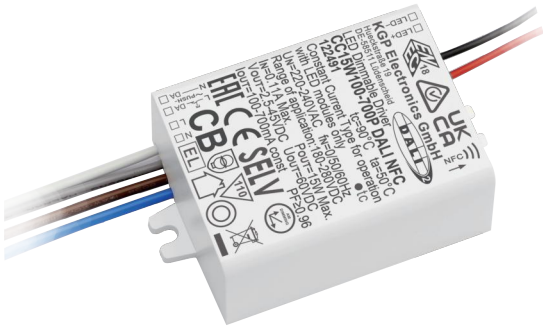
CC15W100-700P DALI NFC

Constant Current Dimmable Driver

Model:CC15W100-700P DALI NFC



Model	Item Code	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC15W100-700P DALI NFC	122491	100-700mA	0.11A	17.44W	15W	0.96	86%	2.5-45V	60V Max.

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Amplitude (DALI-2)
	Output current setting	Near field communication (NFC)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class Ⅱ (compatible 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
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.11A
	Input Power	≤17.44 W
	Power Factor	≥0.96 (230VAC，full load)
	THD	≤10% (230VAC，full load)
	Standby Power Consumption	≤0.45 W Dim to off, 230VAC
	Inrush Current	≤7.0A/2.4us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	27pcs/type A ; 44pcs/type B ; 71pcs/type C 36pcs/type A; 58pcs/type B ; 92pcs/type C 44pcs/type A; 71pcs/type B ; 114pcs/type C 55pcs/type A; 89pcs/type B ; 142pcs/type C

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

Output	Output Voltage Range	2.5-45VDC@100-300mA, 2.5-42VDC@350mA 2.5-37VDC@400mA, 2.5-33VDC@450mA 2.5-30VDC@500mA, 2.5-27VDC@550mA 2.5-25VDC@600mA, 2.5-23VDC@650mA 2.5-21VDC@700mA
	No Load Voltage	60VDC Max.
	Output Current	100-700mA (by NFC setting,Factory set current of 100mA)
	Max. Output Power	15W
	Efficiency	≥86% 230VAC，full load
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤ 1
	SVM	≤ 0.4
	Starting Time（AC mode）	≤0.8S (230VAC，full loadby DALI system)
	Starting Time（DC mode）	≤0.4S
	Switching over time（AC/DC）	≤0.4S
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length：20m, same port of DALI)
	PUSH-button	Max parallel connections qty for Push-dim 15
	DALI function	DALI dimming (Max. lead wire length：300m) 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
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 700μA, I/P to O/P @230V input
Environment	Ta/Operation Temperature	-25….+50℃
	Ts/Storage Temperature	-25….+90℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Wire
	PRI Wire preparation	110mm
	SEC Wire preparation	110mm
	DALI Wire preparation	110mm
	Installation	Built-in

	SEC Wire length	0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters (the length required by the standard). If there are any data differences, please test according to the length required by the standard)
	Dimension	64.5*40*23mm (L*W*H)
Standards	Certification	CE/ENEC/RCM/UKCA/EAC/CB
	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; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016;
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019;
	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-Ground:1kV; L-N:0.5kV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h Tc=90℃
		75000h Tc=85℃
		100000h Tc=80℃
	Warranty	5years， F.R. <10000ppm

Remark:

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

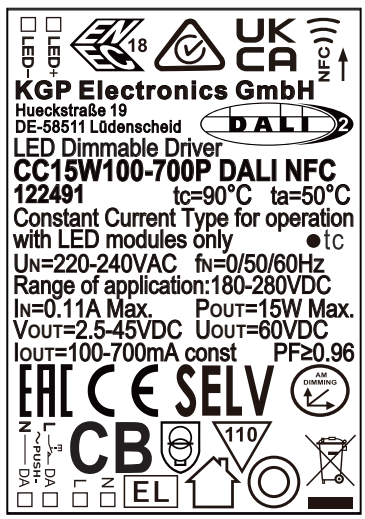
2.LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

3. Please make sure Tc under Lifetime condition when long term operate under DC input.

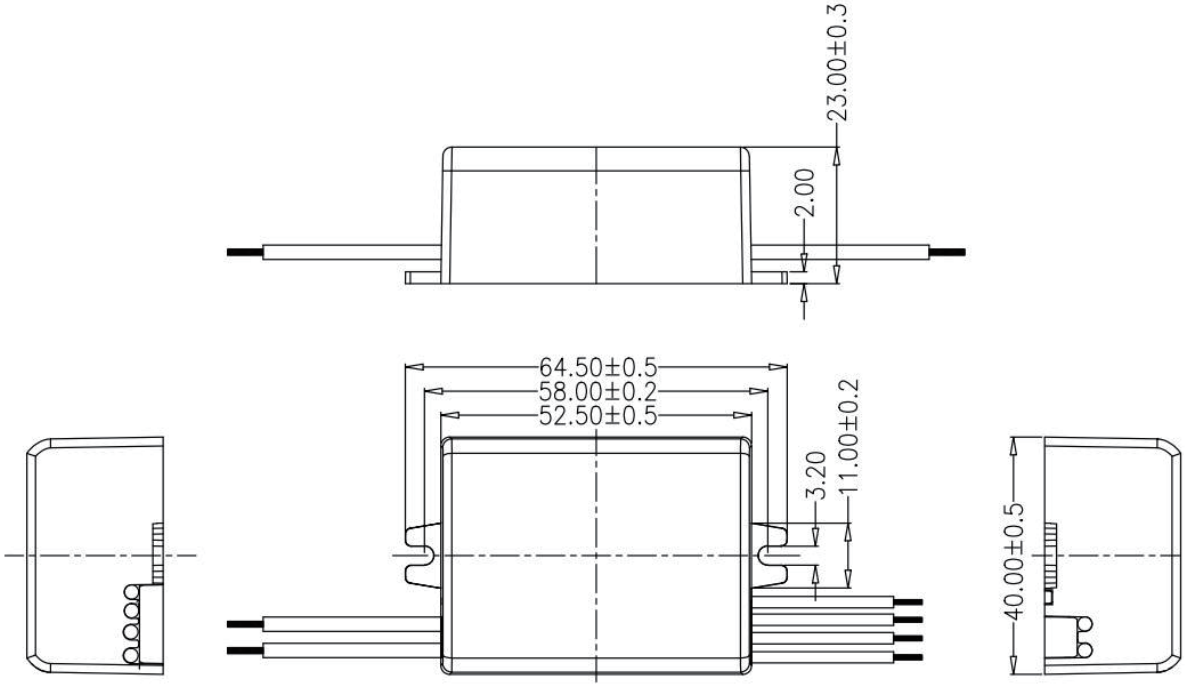
4. DC emergency (DCemDim):Default 15%, EOFx range = 1 .. 100% (EOFx = DCemDIM level)

5. During the PUSH DIM test, the number of parallel connections must be less than 15PCS.

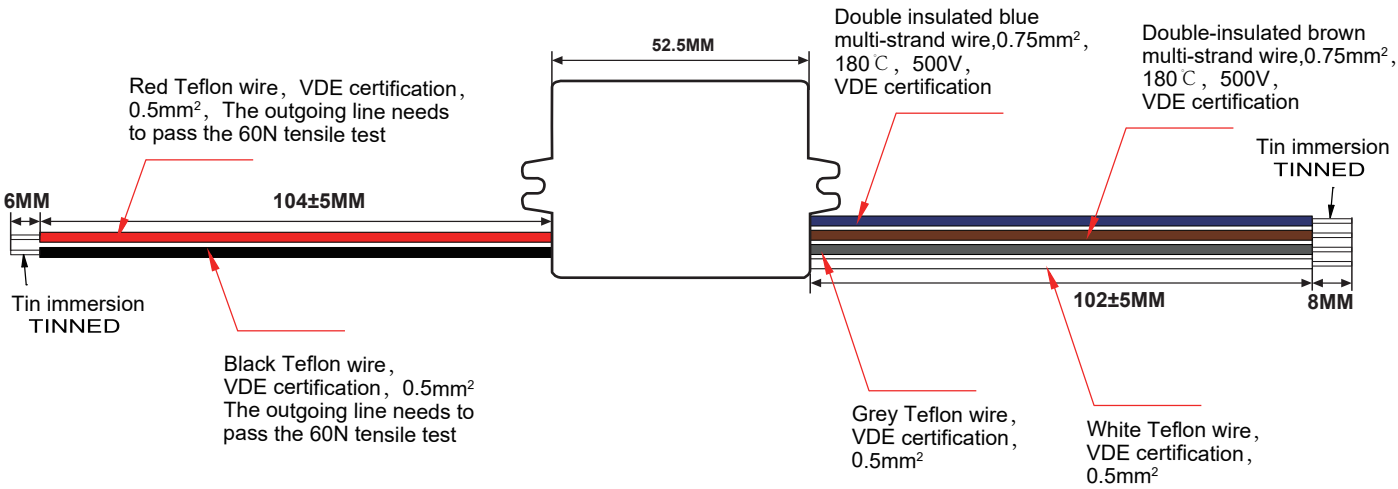
2. Label



3. Dimension （Unit: mm）

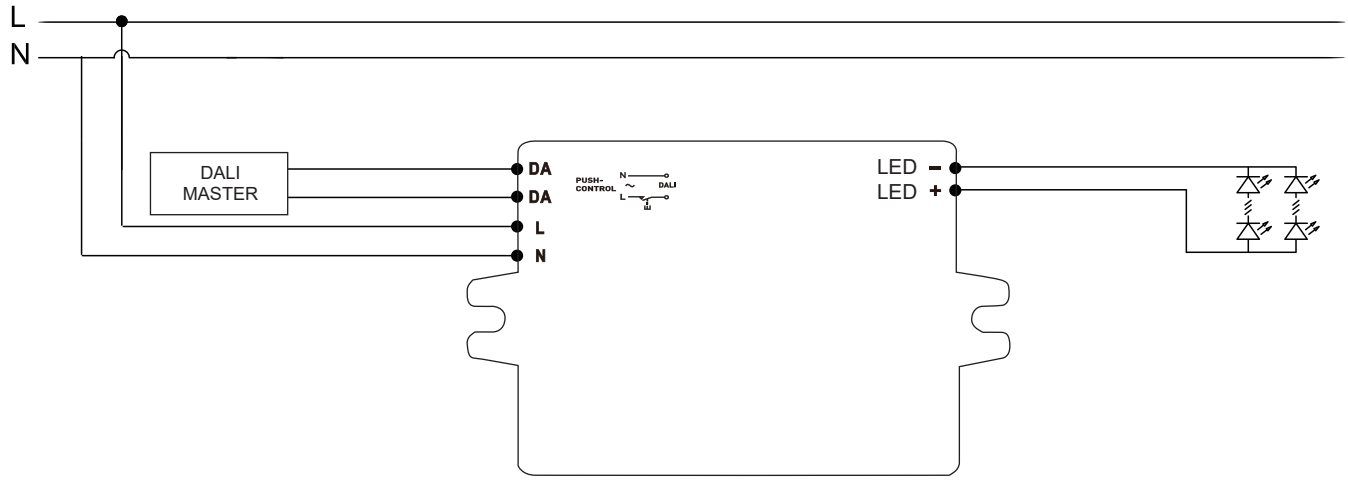


Wire

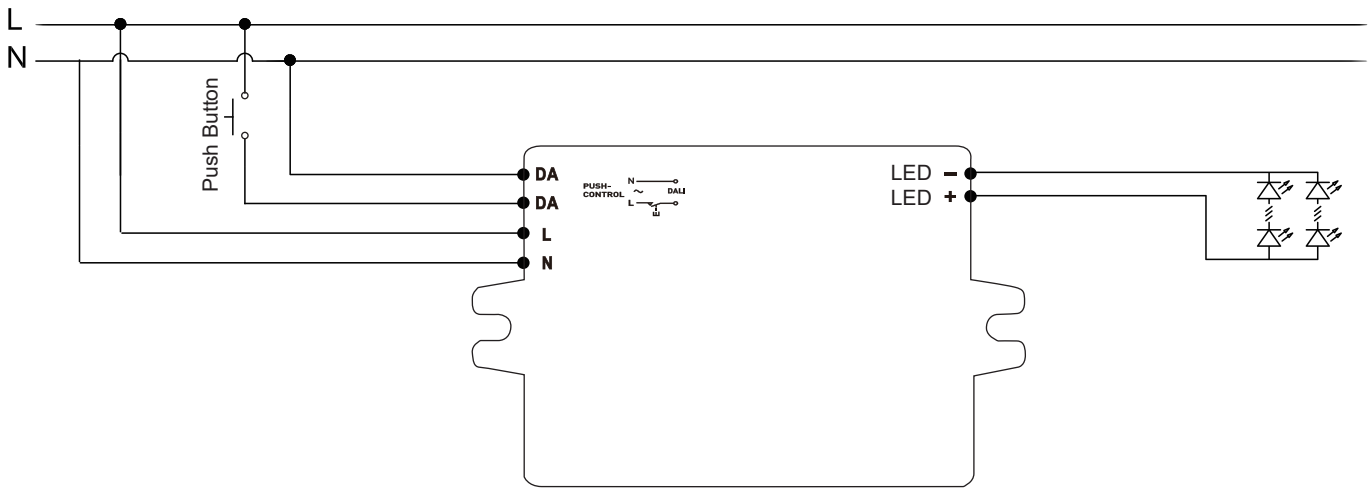


4. Wiring Diagram

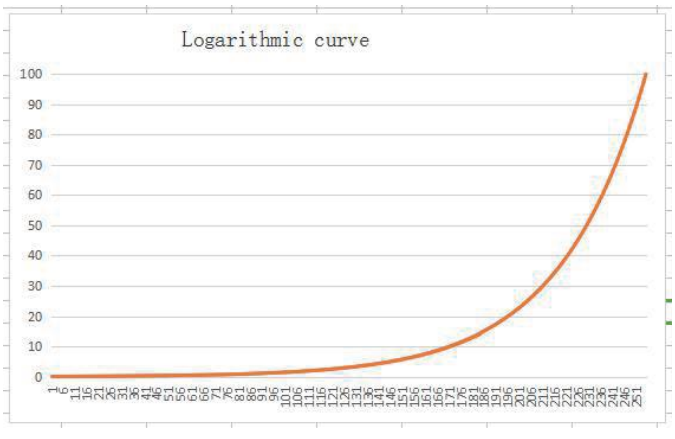
DALI Dimming

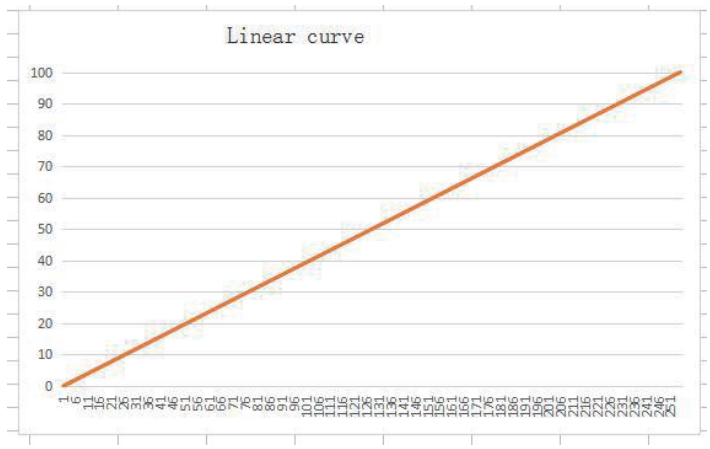


Push Dimming



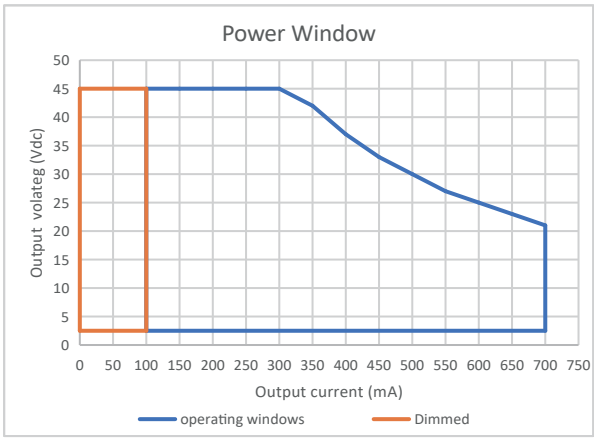
5. Dimming curve



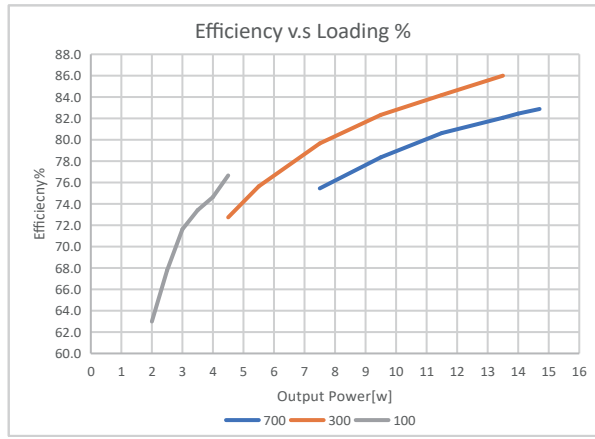


6. Electrical values

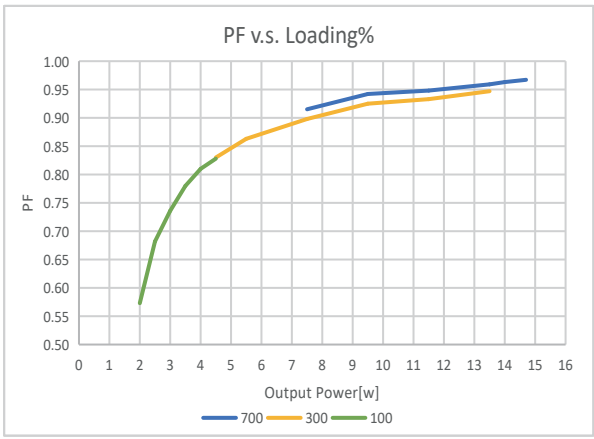
1. Operating power windows



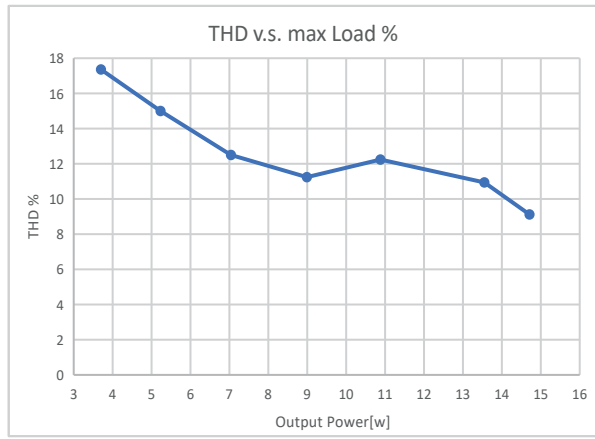
2. Effciency v.s. Load



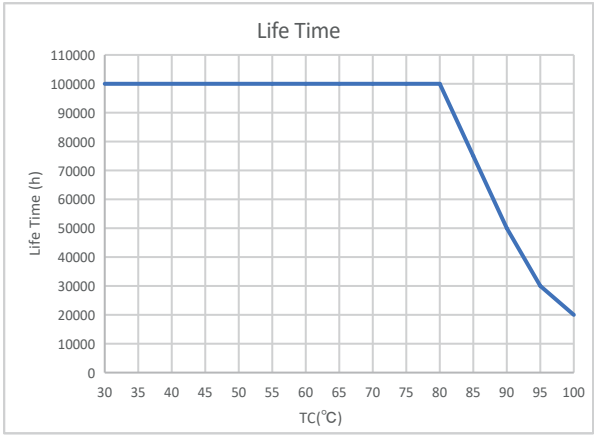
3. PF v.s. Load



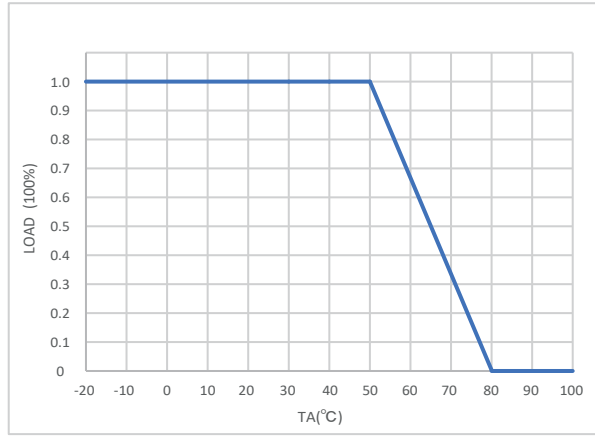
4.THD v.s. Load



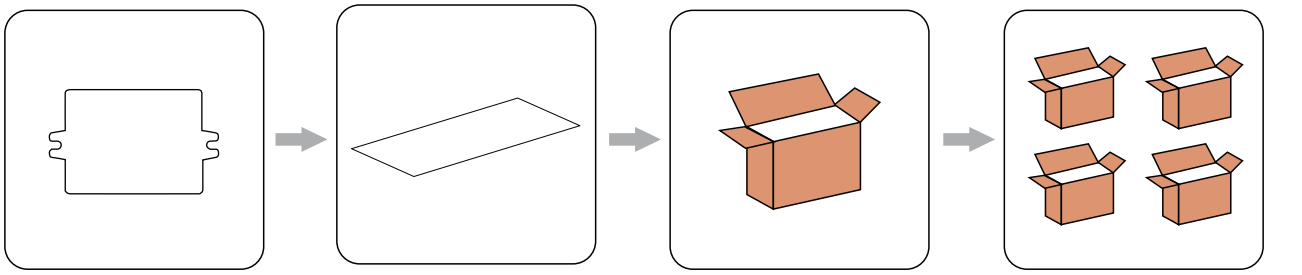
5.Life time



6.Derating



7. Packing information



Product | paper partitions linerboard /Plastic paper | 30 per small box | 30sets/box*4boxs=120pcs/Carton

Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
223*146*103	30	0.08	2.53	2.67

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
310*235*230	120	0.08	10.32	11.18

8. Ordering Data

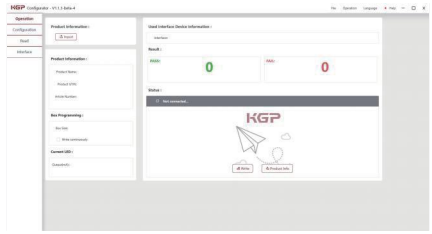
Model No.	Item Code
CC15W100-700P DALI NFC	122491

9. NFC current setting:

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.





Product	Description	Interface	Matching antenna	Zhaga approval	Usage
ID CPR30+ 	Desktop programmer	USB	Integrated	Yes	Single Programming on Desktop
ID ISC.PRH101-USB 	Handheld programmer	USB	Integrated	Yes	Single Programming by Handheld
ID ISC.MR102-USB 	Middle range programmer，for connecting external antenna	USB	RF-MANT12786 	Yes	Single Programming on Product line
ID ISC.LR1002-E 	Long range programmer，for connecting external antenna	USB,RS232,TCP/IP	ID ISC.ANT310/310 	Yes	Multi Programming System

APP NFC

Feature:
Quickly check output current of a LED driver simply via iPhone smart phone, as well as, correct or setup a new current data immediately with no extra equipment at any job site.

iPhone

ICON

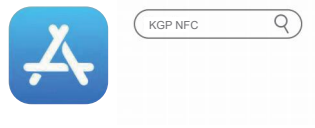
Main



Download method

1.Scan the QR code to download

2.On your iPhone, search for KGP NFC in APP Store to download it



iPhone smartphones with NFC can be downloaded and used directly

Android

ICON

Main



Download method

1.Scan the QR code to download

Android smartphones with NFC can be downloaded and used directly

An iPhone/Android smartphone without NFC requires the following devices to use it

Product	Description	Interface	Matching antenna	Zhaga approval	Usage
ID ECCO Smart HF-BLE 	Handheld wireless programmer	USB,Bluetooth LE V4.2 & V5.0	Integrated	Yes	Handheld programming, installation and maintenance work

10. Push Dim :

10.1 On / off:

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

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

10.2 Power-on memory function

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

10.3 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.

10.4 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-onis the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

10.5 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.

10.6 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.

11. REVISION HISTORY

Date	Revision	Remark
2023.10.20	V0.01	Model
2023.10.30	V0.02	update images, Label
2024.04.15	V0.03	Label, Packing information, Electrical values, update images
2024.09.15	V0.04	Label, Packing information, Parameters, update images
2024.12.02	V0.05	Label, Parameters, Electrical values, update images
2025.01.17	V0.06	Label, NFC current setting, update images
2025.02.10	V0.07	Packing information, Dimming Type
2025.05.22	V0.08	Parameters（Wire）
2025.06.06	V0.09	Parameters（Wire 110）
2025.08.05	V0.10	Parameters（SEC Wire length）,Ordering Data