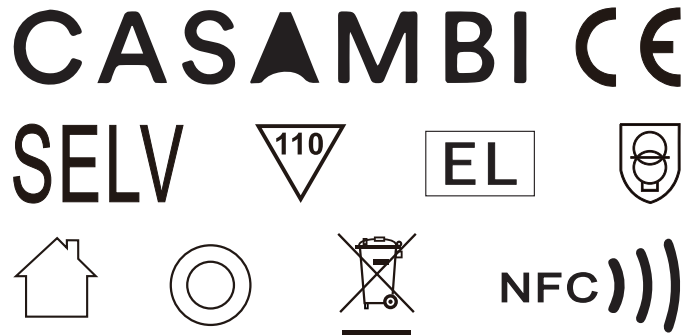


Constant Current Dimmable Driver

Model:CC15W100-700 CAB NFC



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC15W100-700 CAB NFC	100-700mA	0.11A	17.64W	15W	0.95	85%	3-45V	50V Max.

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Bluetooth
	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 (230VAC, full load)
	Input Power	≤17.64W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤12% (230VAC, full load)
	Standby Power Consumption	≤0.5W Dim to off, 230VAC
	Inrush Current	≤7.0A/2.4us (230VAC, full load)
	Connected quantity of 10A Breaker	27pcs/type A ; 44pcs/type B ; 71pcs/type C
	Connected quantity of 13A Breaker	36pcs/type A ; 58pcs/type B ; 92pcs/type C
	Connected quantity of 16A Breaker	44pcs/type A ; 71pcs/type B ; 114pcs/type C
	Connected quantity of 20A Breaker	55pcs/type A ; 89pcs/type B ; 142pcs/type C

Output	Output Voltage Range	3-45VDC@100-300mA, 3-42VDC@350mA 3-37VDC@400mA, 3-33VDC@450mA 3-30VDC@500mA, 3-27VDC@550mA 3-25VDC@600mA, 3-23VDC@650mA 3-21VDC@700mA
	No Load Voltage	50VDC Max.
	Output Current	100-700mA (by NFC setting, Factory set current of 100mA)
	Max. Output Power	15W
	Efficiency	≥85% 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)	≤0.5S (230VAC, full loadby)
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)
	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
	Installation	Built-in
	Dimension	64.5 *40*23mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017
	EMC Standards	EN55015:2013/A1:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN61547:2009
	Performance	EN 62384
	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

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.

SEC
○
BK
+
RD

↑
Z
C

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

ta=50°C tc=90°C

LED Dimmable Driver
CC5W100-700-CAB-NFC
Constant Current Type for operation
with LED modules only

PRI:220-240VAC 0/50/60Hz 0.11A
SEC:120-700mA 3-45VDC ●tC

No load 50VDC Max. 15W
Range of application:DC 180-280V
PF≥0.95

C E SELV EL

BN BU
L N
PRI ≈

110

⊗

⊙

⊗

Dimension (Unit: mm)

Technical drawing of the 1000mAh 3.7V Li-ion battery showing dimensions in millimeters (mm). The drawing includes three views: a top view, a side view, and an end view.

Top View Dimensions:

- Overall width: 64.50 ± 0.5
- Width of the main body: 58.00 ± 0.2
- Width of the bottom section: 52.50 ± 0.5
- Height of the main body: 11.00 ± 0.2
- Height of the bottom section: 3.20

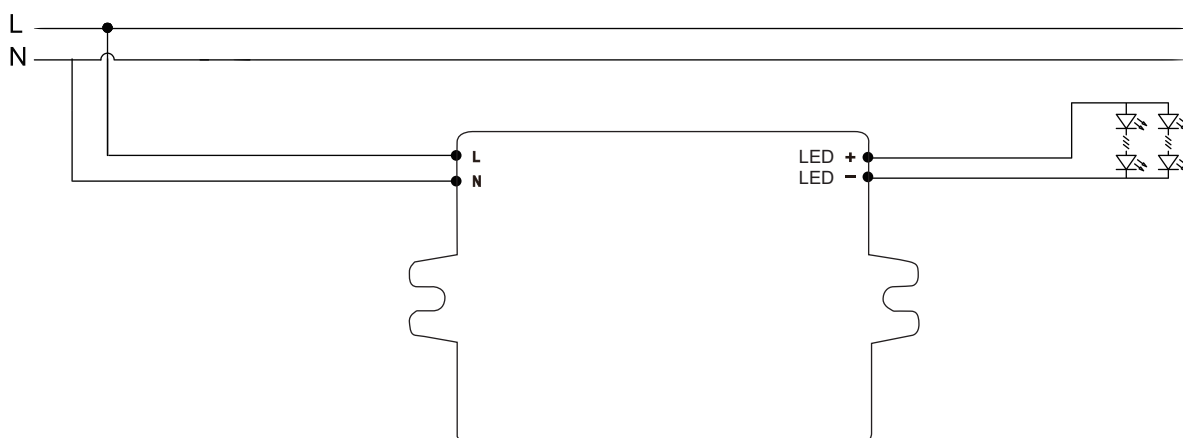
Side View Dimensions:

- Overall height: 23.00 ± 0.3
- Height of the main body: 2.00

End View Dimensions:

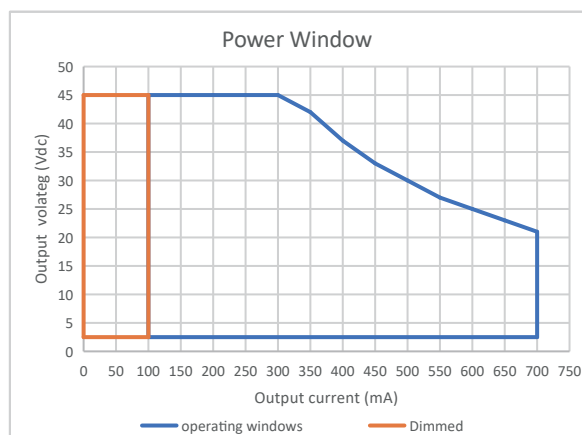
- Overall width: 40.00 ± 0.5

4. Wiring Diagram

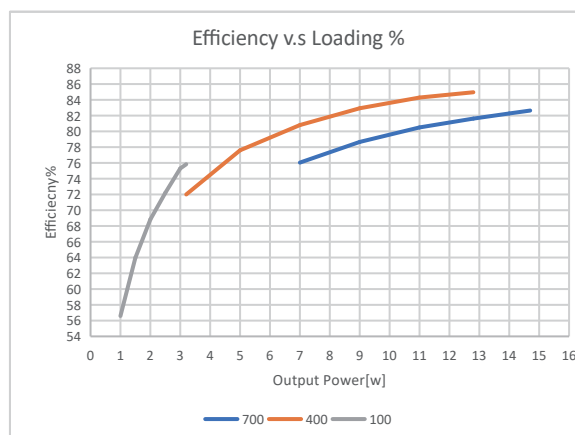


5. Electrical values

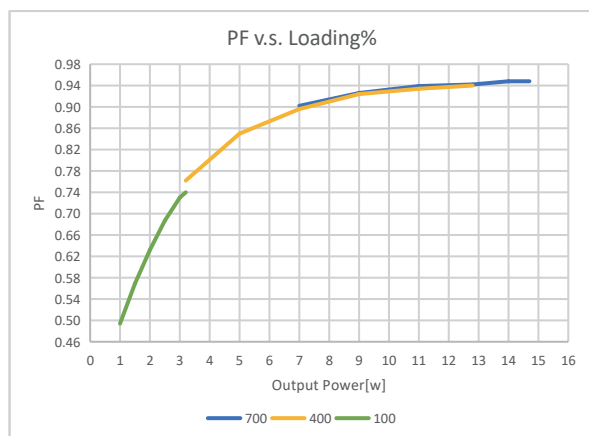
1. Operating power windows



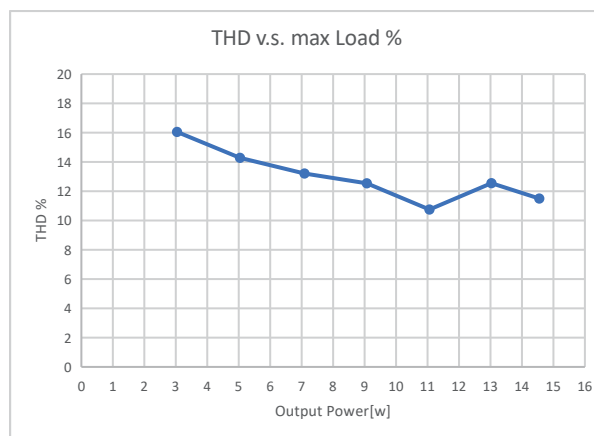
2. Efficiency v.s. Load



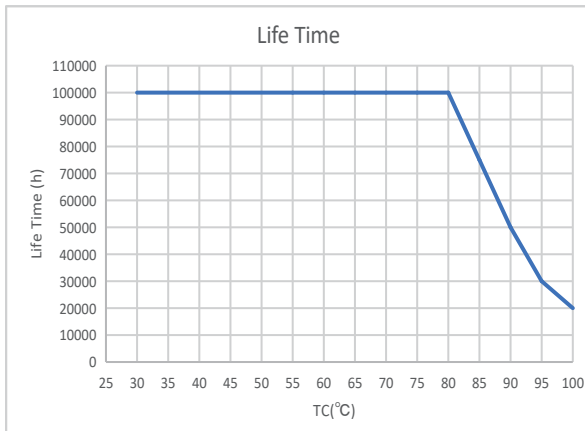
3. PF v.s. Load



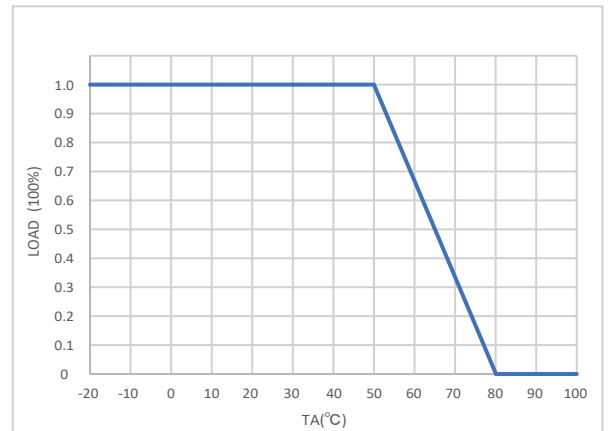
4. THD v.s. Load



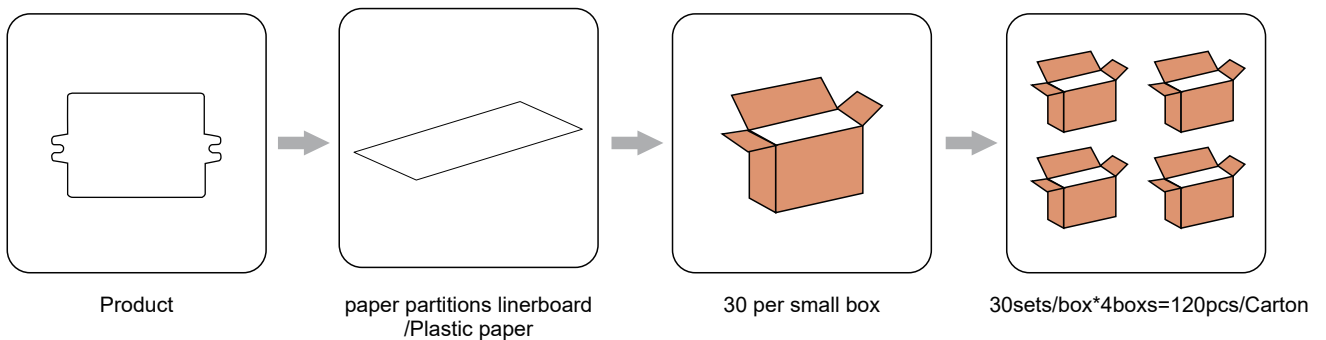
5. Life time



6. Derating



6. Packing information



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

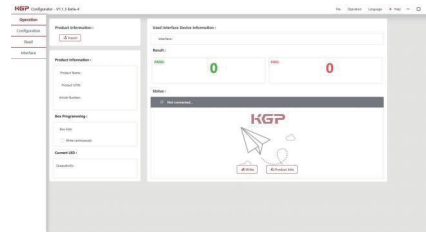
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
310*235*230	120	0.08	10.32	11.18

7. 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

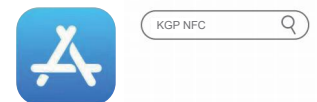


Download method

1.Scan the QR code to download



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



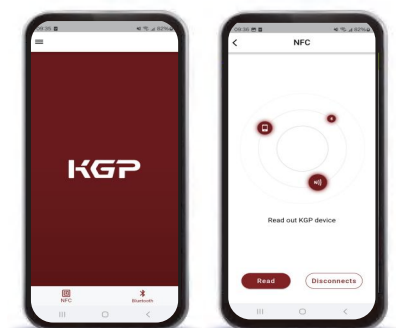
iPhone smartphones with NFC can be downloaded and used directly

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

8. REVISION HISTORY

Date	Revision	Remark
2024.04.15	V0.01	Label, Packing information, Electrical values, update images
2024.09.15	V0.02	Label, Packing information, Parameters, update images
2024.12.02	V0.03	Label, Parameters, Electrical values, update images
2025.01.17	V0.04	Label, NFC current setting, update images
2025.02.10	V0.05	Packing information