Constant Current Driver

Model:CC15W100-700P NFC



Model	Item Code	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC15W100-700P NFC	122471	100-700mA	0.11A	17.24W	15W	0.96	87%	2.5-45V	60V Max.

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

1. Parameters

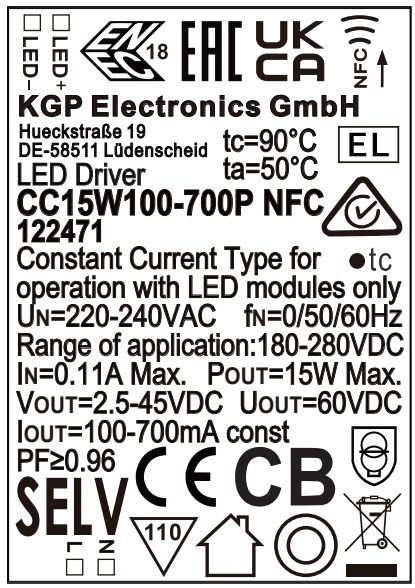
Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output current setting	Near field communication (NFC)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class Ⅱ
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.11A
	Input Power	≤17.24W
	Power Factor	≥0.96 (230VAC，full load)
	THD	≤10% (230VAC，full load)
	No-load Power Consumption	≤0.5W (230VAC，full load)
	Inrush Current	≤7.0A/2.4us (230VAC，full load)

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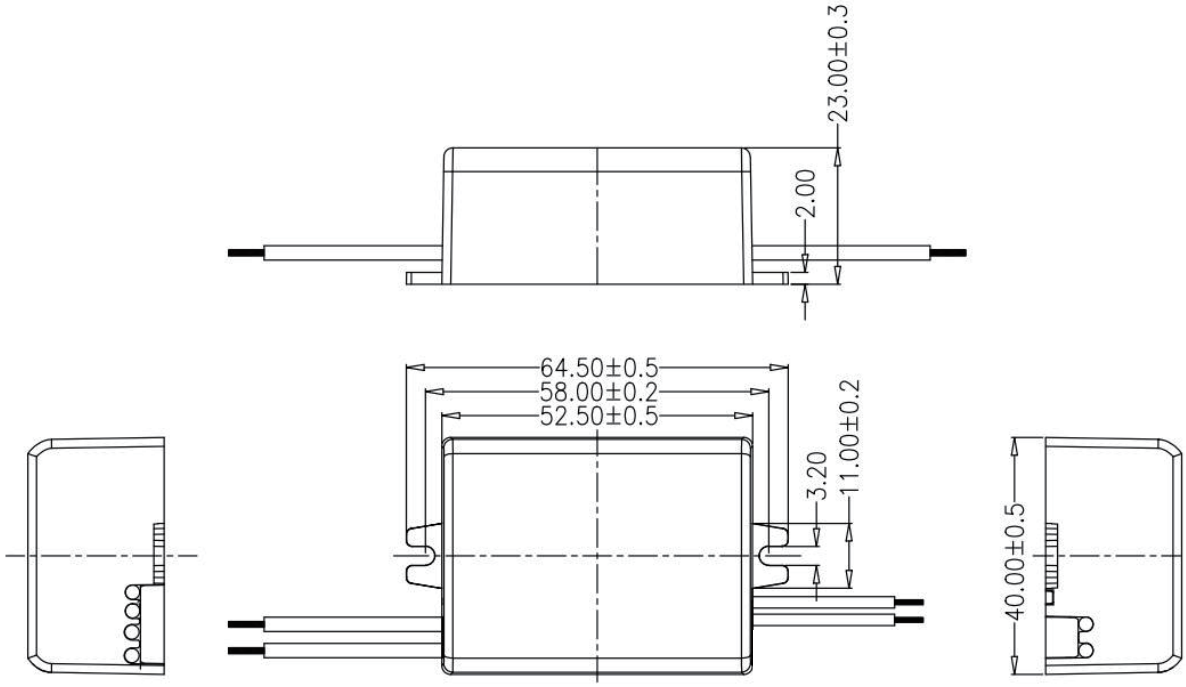
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	27pcs/type A ; 44pcs/type B ; 71pcs/type C 36pcs/type A; 58pcs/type B ; 92pcs/type C 44pcs/type A; 71pcs/type B ; 114pcs/type C 55pcs/type A; 89pcs/type B ; 142pcs/type C
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	≥87% 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 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)
	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
	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
	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.		

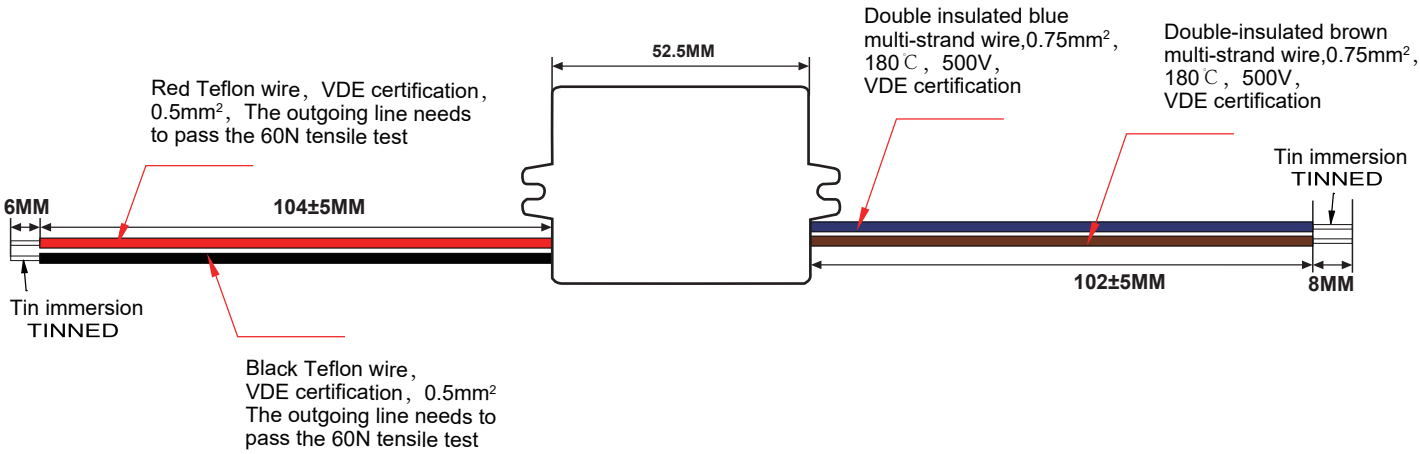
2. Label



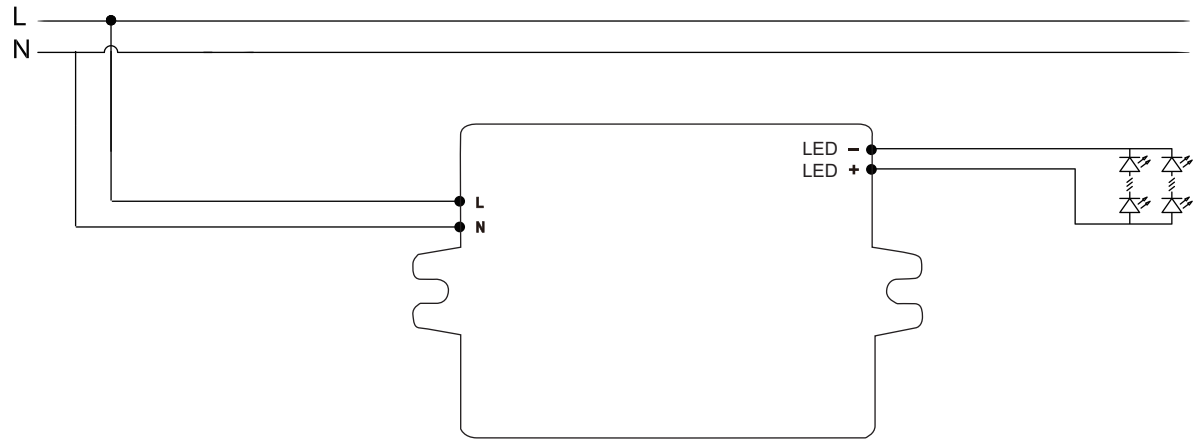
3. Dimension （Unit: mm）



Wire

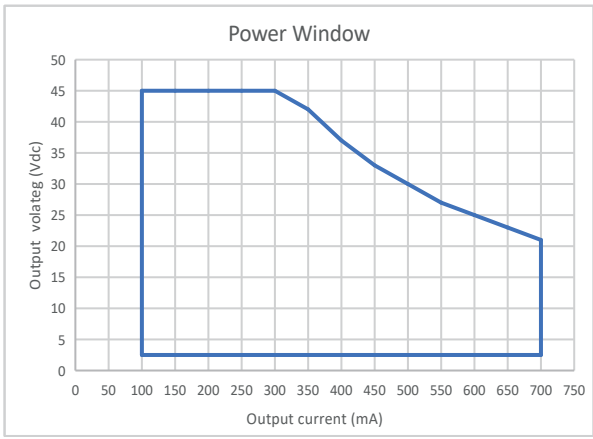


4. Wiring Diagram

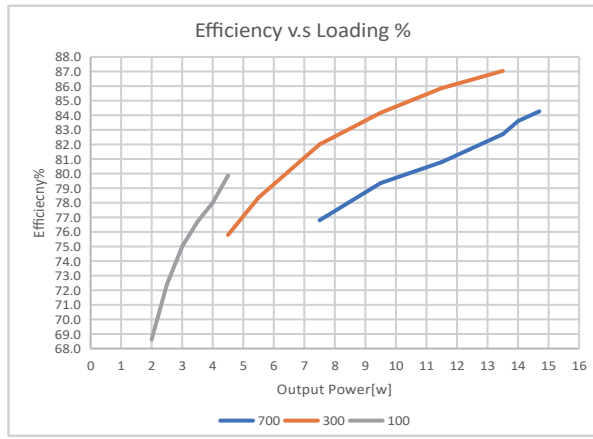


5. Electrical values

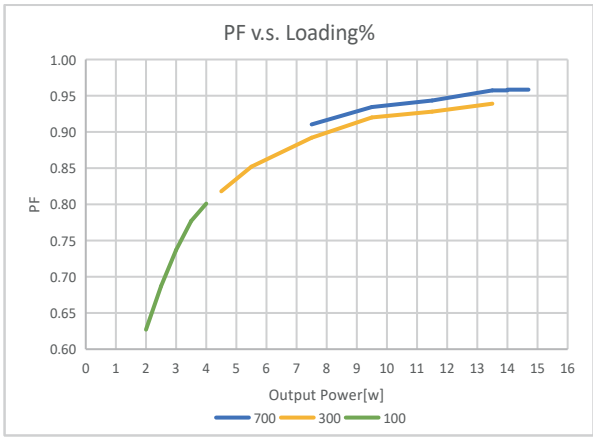
1. Operating power windows



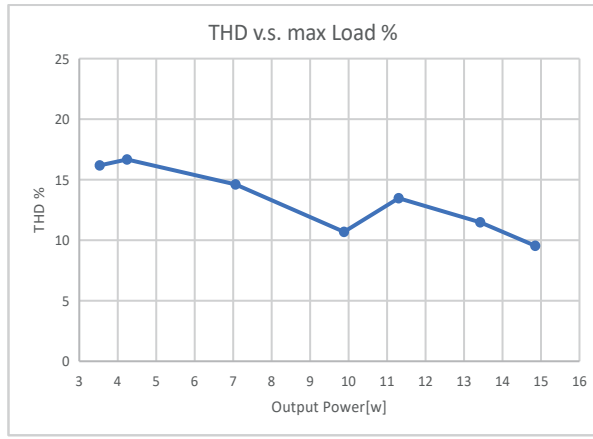
2. Effciency v.s. Load



3. PF v.s. Load

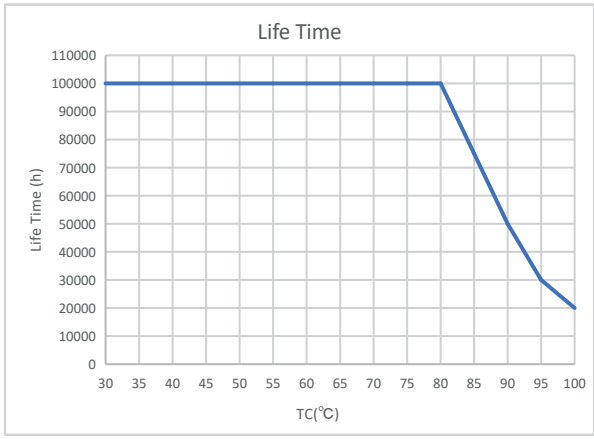


4.THD v.s. Load

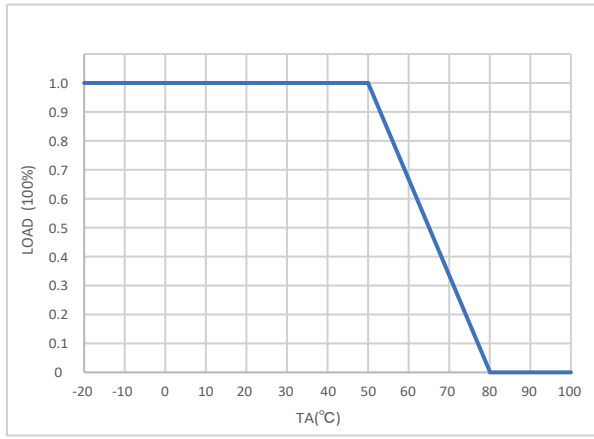


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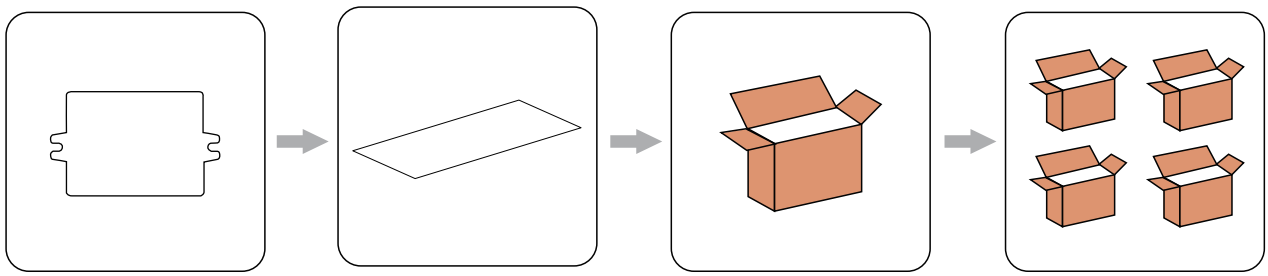
5.Life time



6.Derating



6. 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

7. Ordering Data

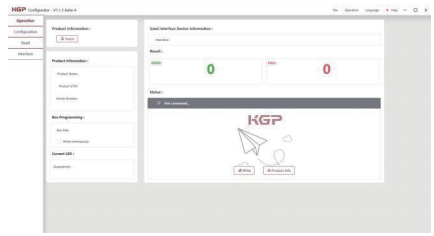
Model No.	Item Code
CC15W100-700P NFC	122471

8. 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

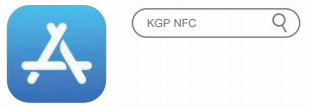
Main



Download method

1.Scan the QR code to download

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

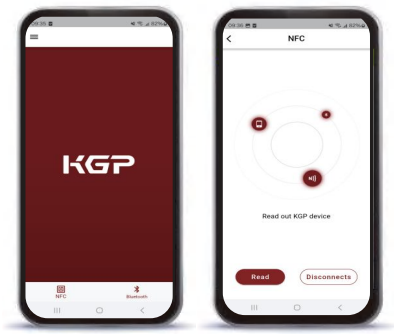


iPhone smartphones with NFC can be downloaded and used directly

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

9. 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
2025.05.23	V0.08	Parameters（Wire）
2025.06.06	V0.09	Parameters（Wire 110）
2025.08.05	V0.10	Parameters（SEC Wire length）,Ordering Data