



**Constant Current Driver**

**Model:R18C150-700N-N**



Model	Output Current (*Typical)	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
R18C150-700N-N	150mA	0.07A	10W	0.375-6.75W	0.88	80%	2.5-45V	60V
	200mA	0.08A	11W	0.5-9W	0.92	82%	2.5-45V	60V
	250mA	0.08A	14W	0.625-11.25W	0.92	82%	2.5-45V	60V
	300mA	0.09A	17W	0.75-13.5W	0.92	84%	2.5-45V	60V
	350mA	0.11A	19W	0.875-15.75W	0.92	84%	2.5-45V	60V
	400mA	0.13A	20.5W	1-18W	0.92	85%	2.5-45V	60V
	450mA	0.13A	21W	1.125-20.25W	0.92	85%	2.5-40V	60V
	500mA	0.11A	19W	1.25-16W	0.92	84%	2.5-32V	60V
	550mA	0.13A	21W	1.375-17.6W	0.92	85%	2.5-32V	60V
	600mA	0.13A	20W	1.5-16.8W	0.92	84%	2.5-28V	60V
	650mA	0.13A	22W	1.625-18.2W	0.92	85%	2.5-28V	60V
700mA	0.13A	22W	1.75-17.5W	0.92	84%	2.5-25V	60V	

\* Test result @230V, 50Hz, Full Load.Current setting @ 1mA-steps (NFC)

**1. Parameters**

Category	Item	Technical Norm
Features	Output Type	Constant Current
	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 or 180-280VDC
	Frequency	50/60Hz
	Input Current	≤0.13A (230VAC, full load)
	Input Power	≤22W (230VAC, full load)
	Power Factor	≥0.92 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W@230VAC
Output	Output Voltage Range	2.5-45VDC@150-400mA 2.5-40VDC@450mA 2.5-32VDC@500-550mA



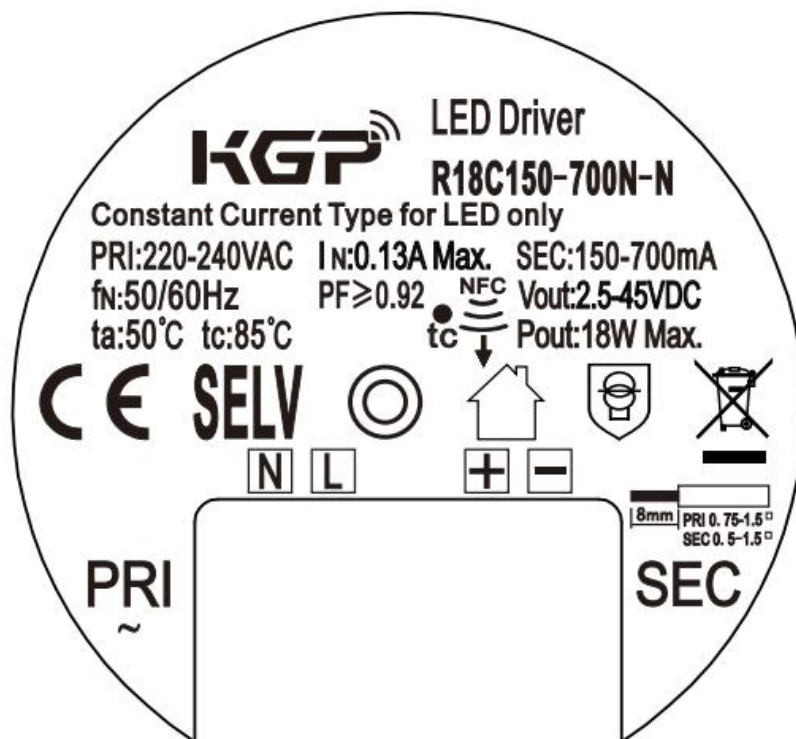
		2.5-28VDC@600-650mA 2.5-25VDC@700mA
	No Load Voltage	60VDC Max.
	Output Current	150mA -700mA (Max. output)
	Max. Output Power	18W
	Efficiency	≥84% (230VAC, full load)
	Current Ripple	±5% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	±5%
	Started Delay Time	≤0.5S (230VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 700pA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20....+50°C
	Ts/Storage Temperature	-20....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Built-in
	SEC Wire preparation	0.5-1.5 <sup>□</sup>
	Dimension	55*25mm (R*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, AS 61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/1KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta
	Warranty	5years , F.R. < 10000ppm
<p>Remark:</p> <p>1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.</p> <p>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.</p>		



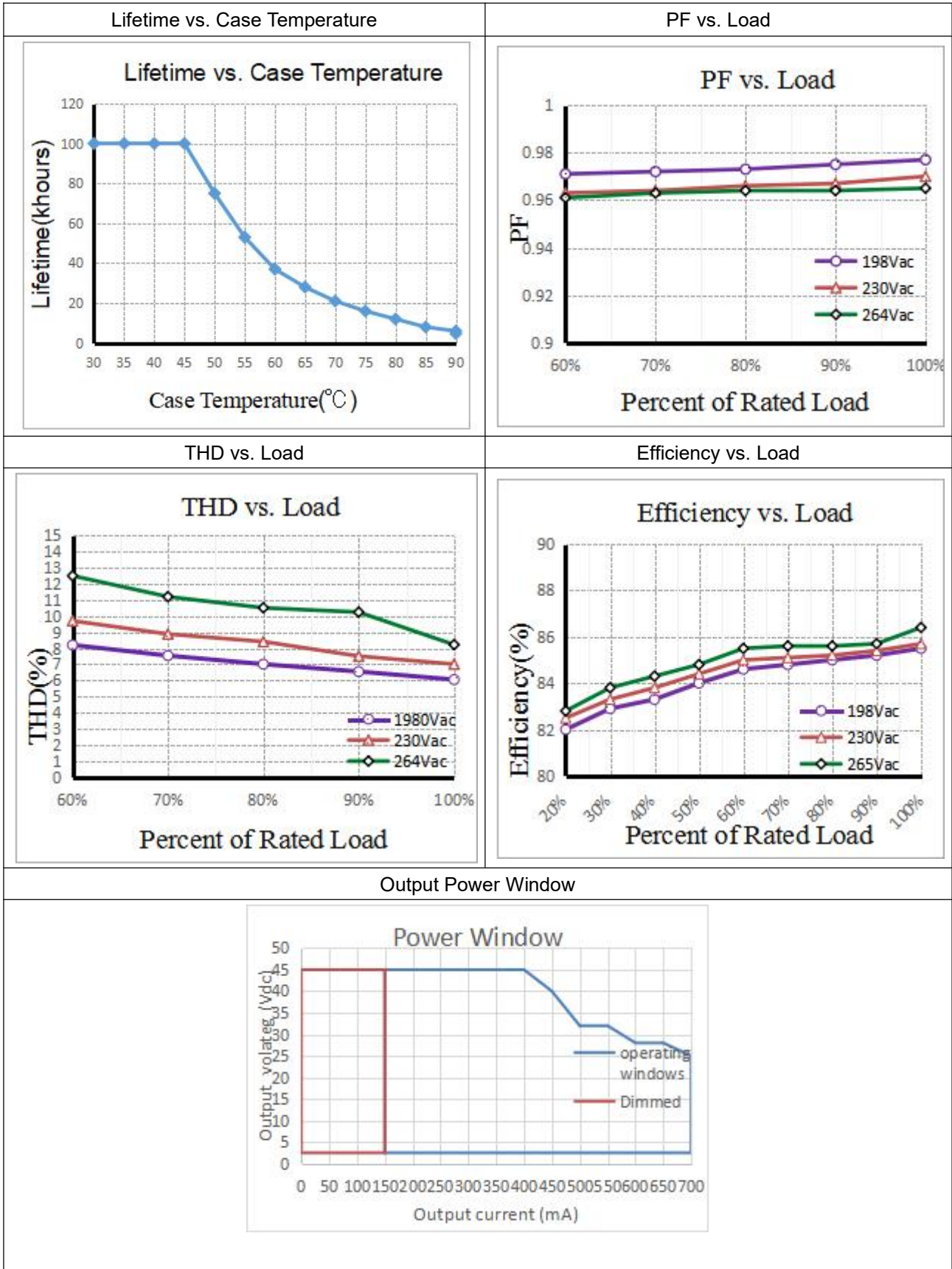
## 2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker					Input Voltage	Inrush Current (A)	Time
	current (A)	10	13	16	20			
	Installation wire diameter	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>		
TYPE B		13	17	21	27	33	@230VAC	45
TYPE C		21	28	34	43	53		
TYPE D		34	44	55	68	85		

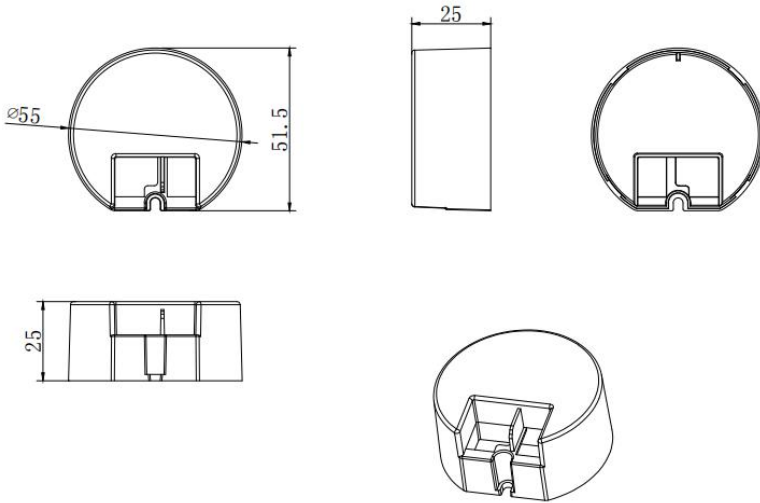
## 3. Label



**4. Electrical values**



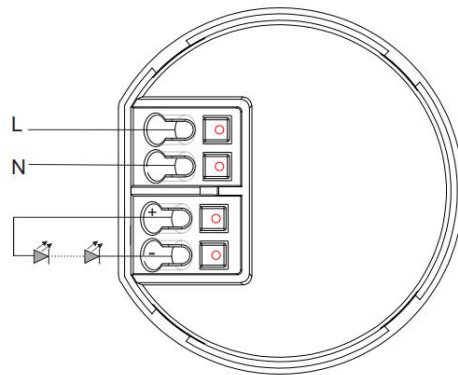
## 5. Dimension



## 6. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	RC18W150-700N-N	375*235*195	120	0.073	8.76	8.8

## 7. Wiring Diagram



## 8. Wiring 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.)
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.



## 9. Replace LED module

- Mains off
- Remove LED module
- Wait for 30 seconds
- Connect LED module again

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

## 10. NFC instructions

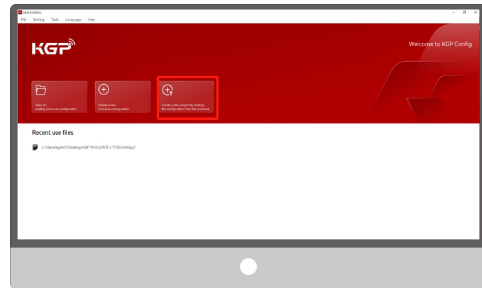
### REMARK:







Make sure your computer has NFC capability and has it activated.

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.

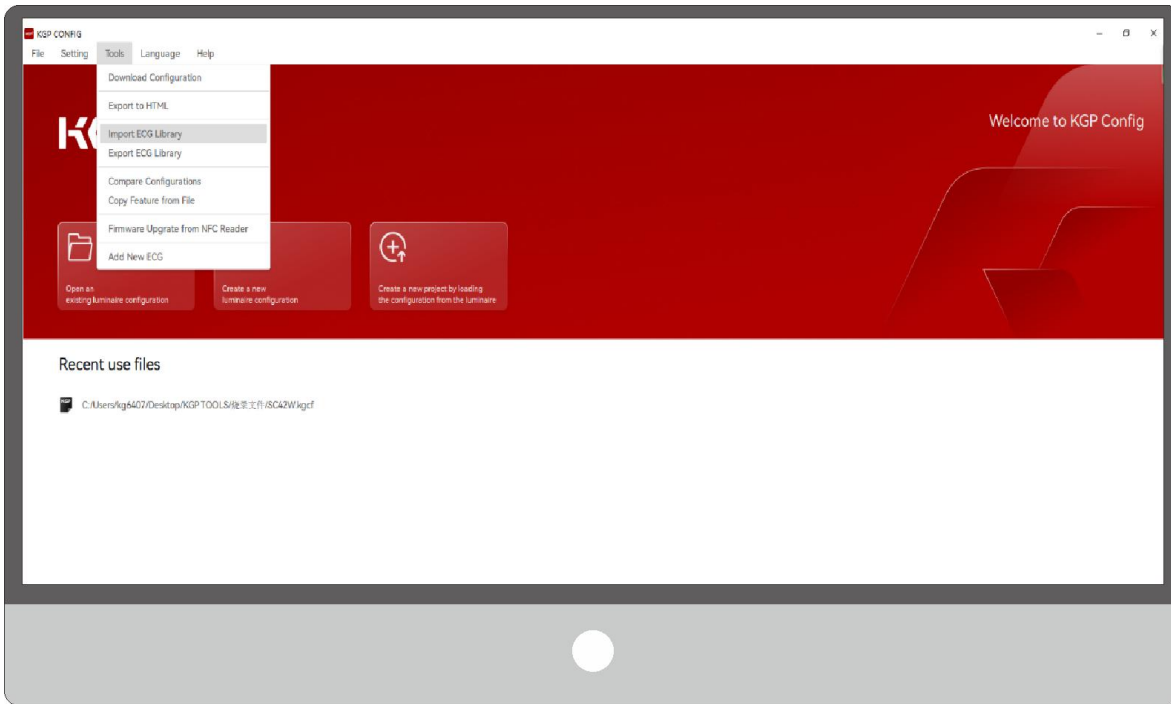


Product	Description	Interface	Matching antenna	Zhaga approval	Usage
 <p>ID CPR30+</p>	Desktop programmer	USB	Integrated	Yes	Single Programming on Desktop
 <p>ID ISC.PRH101-USB</p>	Handheld programmer	USB	Integrated	Yes	Single Programming by Handheld
 <p>ID ISC.MR102-USB</p>	Middle range programmer ,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



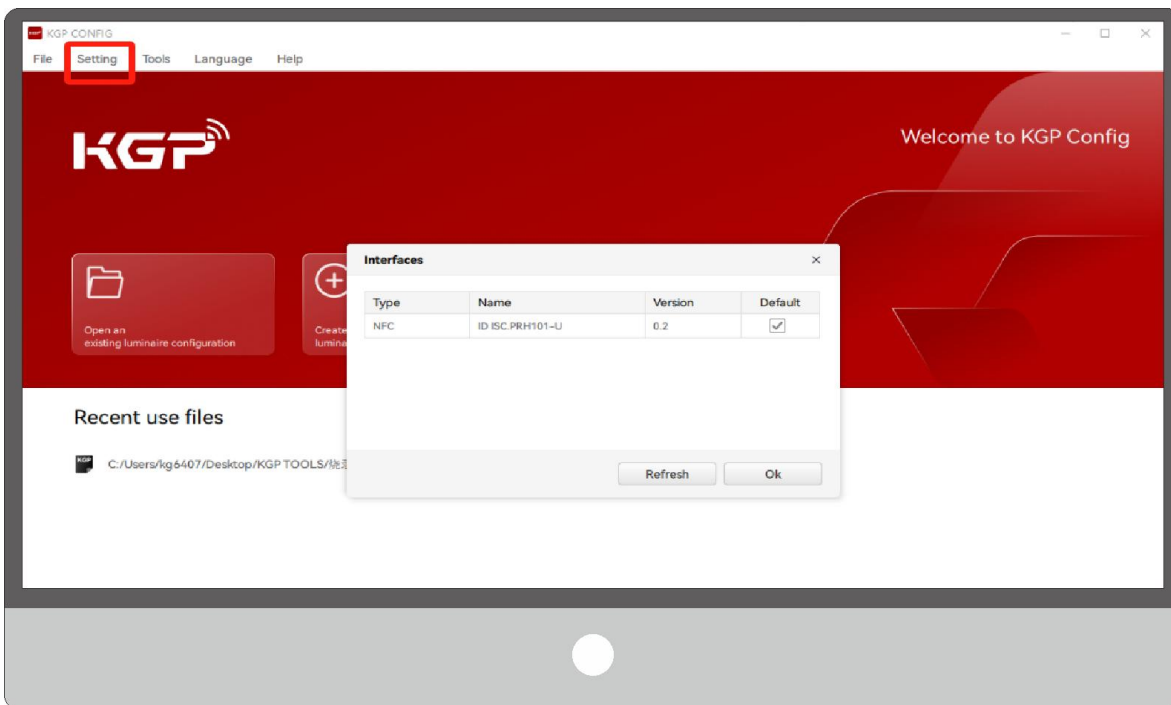
**Step 1: Import database file (The ecg database needs to be used only for the first installation)**

Click the “Tool” field and select “Import ECG Library” to import the ECG database.



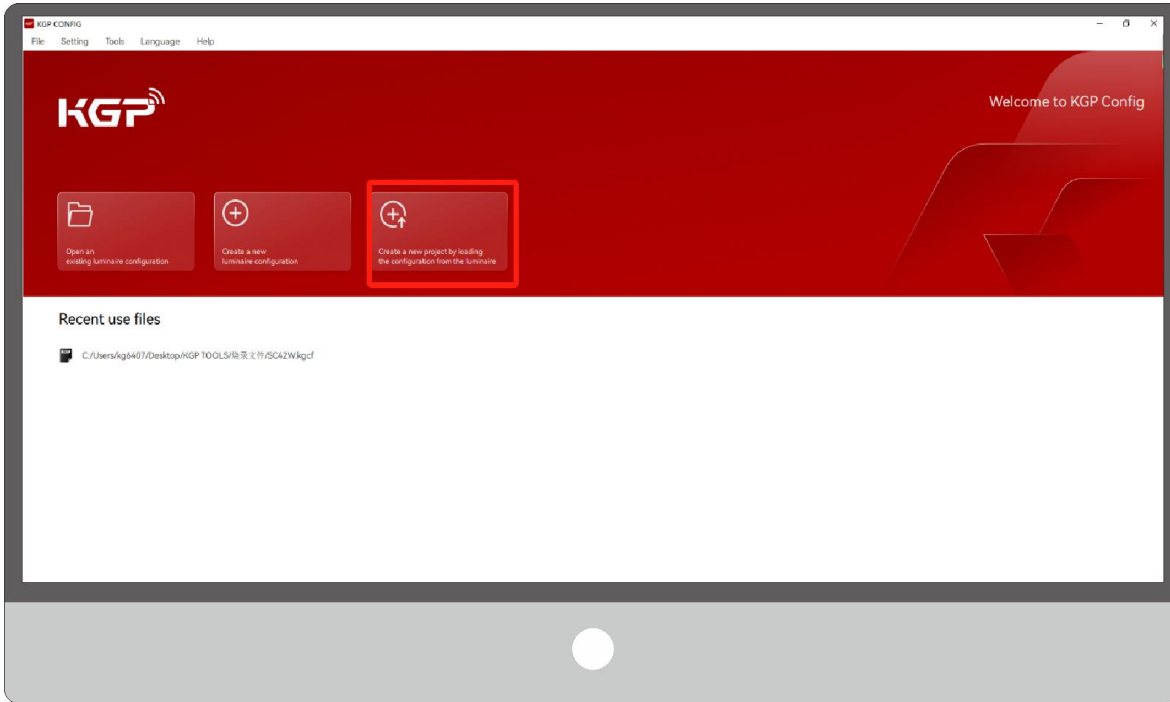
**Step 2: Connect FEIG reader**

Click the “Setting” button to check whether the NFC port is connected



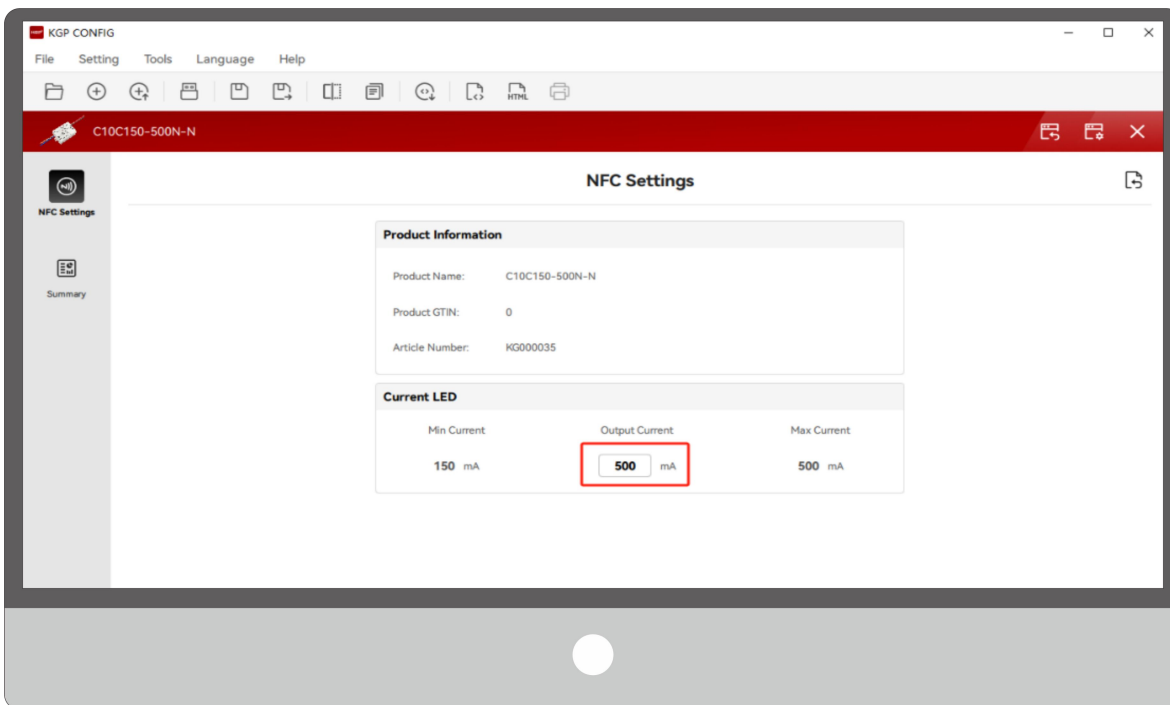
### Step 3: Read product information

Click this button to read



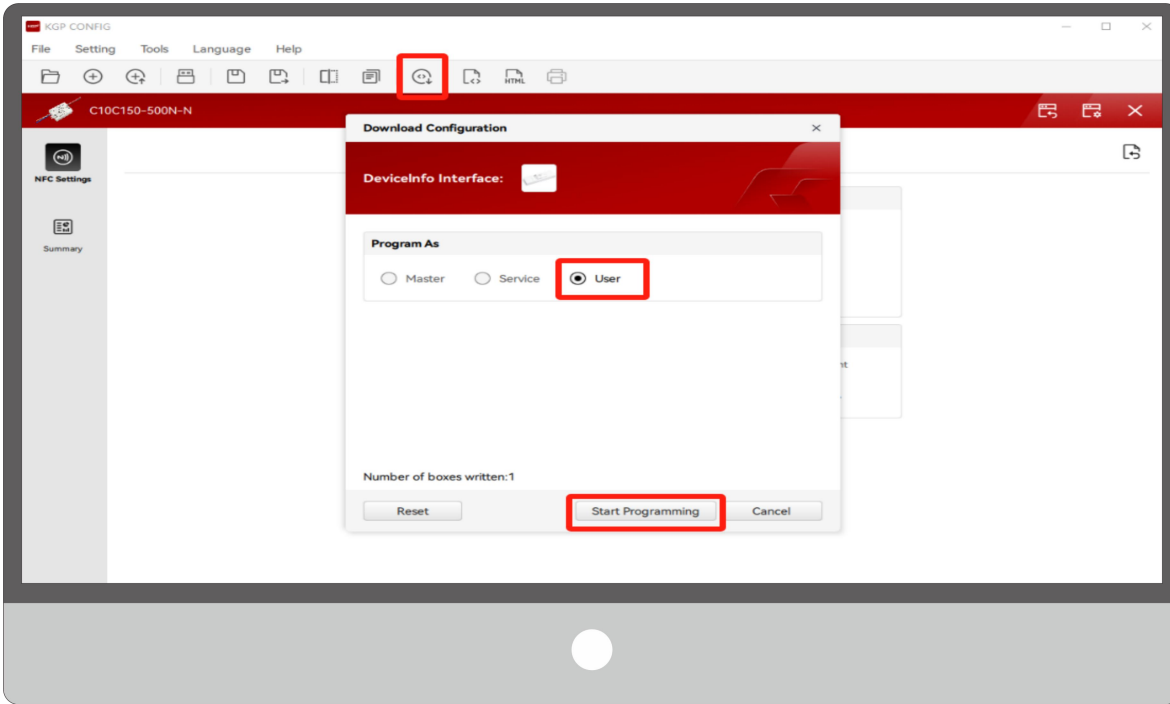
### Step 4: You can choose to set the output current according to your needs

Enter the Output current value you want to change in the inputbox

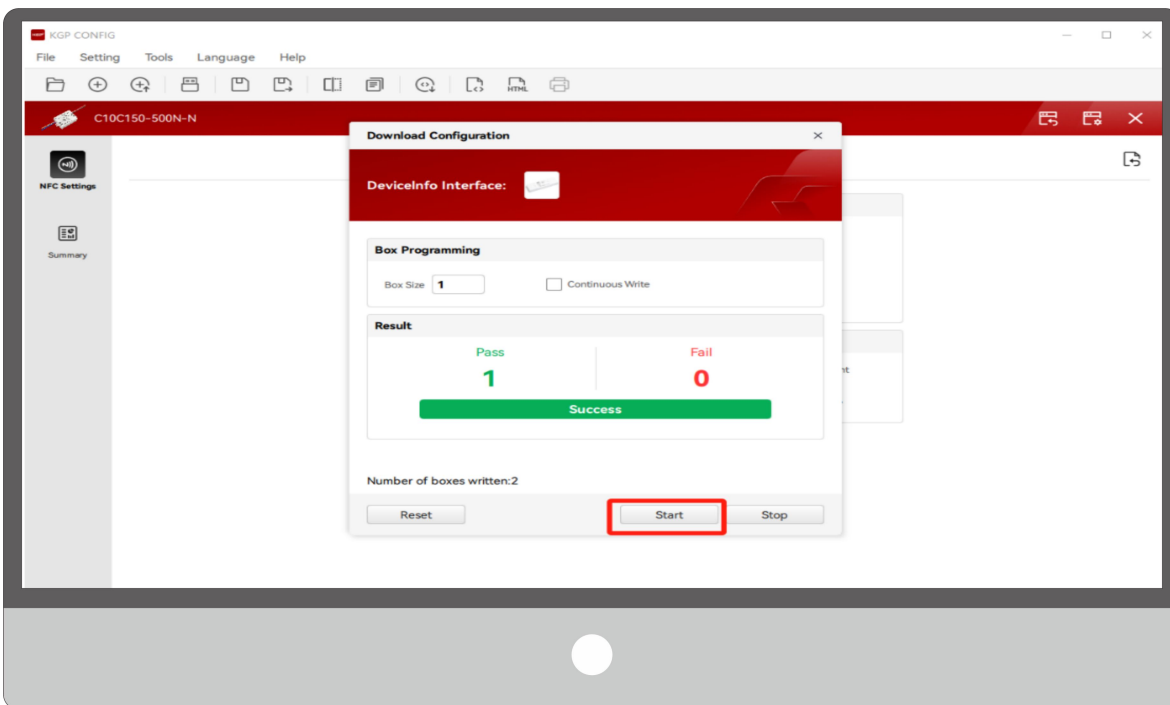


**Step 5: After the modification is complete, the download configuration page is displayed**

1) Click this button to enter the "Download Configuration" window, select the "User" option box, and click the "Start Programming" button for the next step.



2) Click the "Start" button to program.

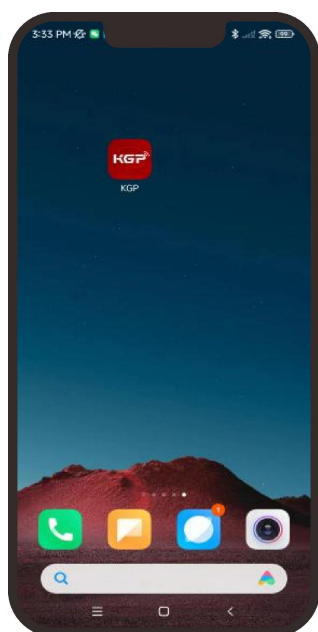


## 11. mobile client:

### Note:

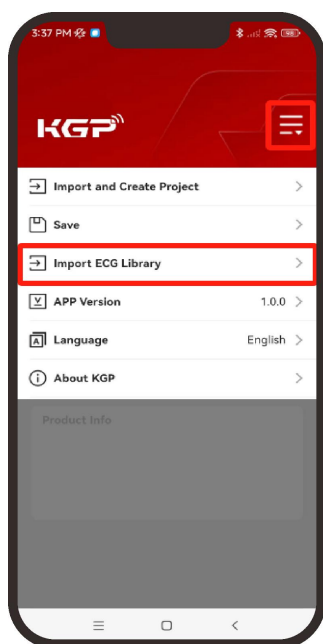
1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet.
2. Please Make sure that the "NFC position" is matched.
3. Please do not power on the device before setting.

### Step 1: Download the APP ,then open the APP

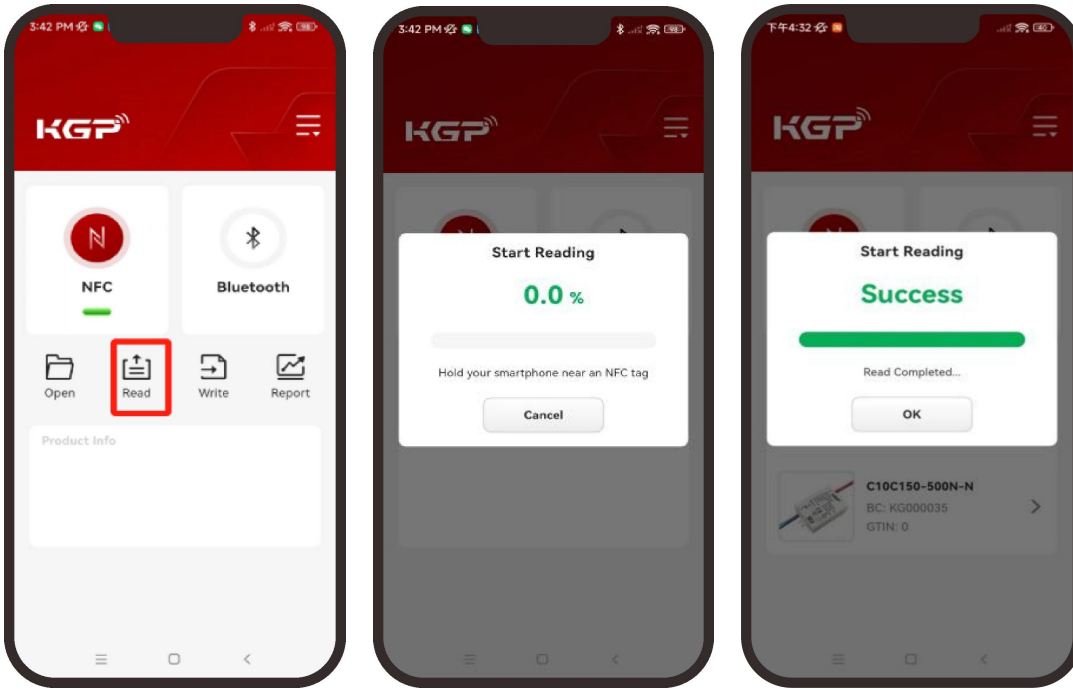


### Step 2: Import database file

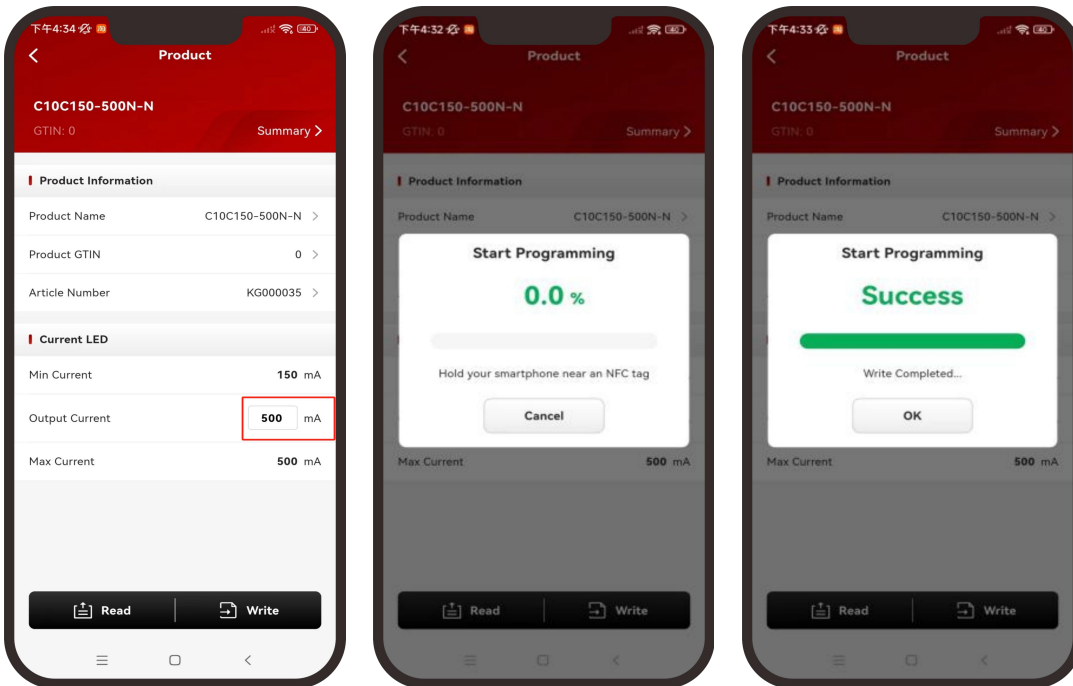
Click the drop-down box above, select "Import ECG library", then import the db database file.



**Step 3: Read product information**



**Step 4: You can choose to set the output current according to your needs, then write the configuration, and power on the device**



**Tips:**

- 1.NFC function doesn't require any power driver.
2. Many functions can be configured by NFC.Kindly check your desired functions.



## 12. REVISION HISTORY

DATE	REV	Modification details
2023-04-15	V1.0	Initial release.

