

Constant Current Dimmable Driver

Model:SC42W300-1050CG-4X 2CH IOT NFC

Model	Item Code	Output Current（*Typical）	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
SC42W300-1050CG-4W 2CH IOT NFC	146831	300-1050mA	3.00-42W	0.97	90%	10-42V	59V
SC42W300-1050CG-4B 2CH IOT NFC	146641						
SC42W300-1050CG-4G 2CH IOT NFC	146741						

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

1. Parameters

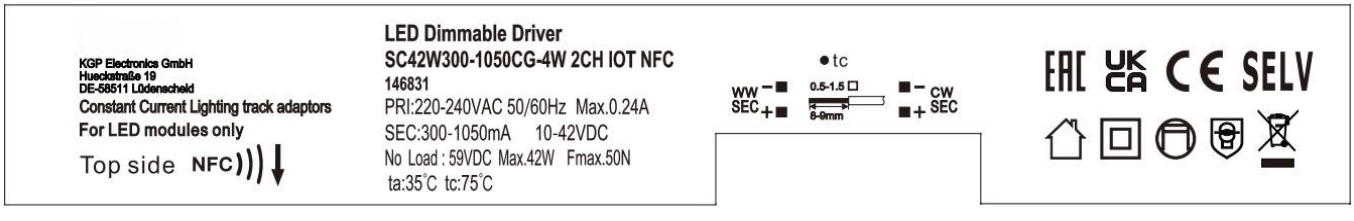
Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Bluetooth
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class Ⅱ
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 198-280VDC
	Frequency	50/60Hz
	Input Current	≤0.24A (230VAC，full load)
	Input Power	≤48.8W (230VAC，full load)
	Power Factor	≥0.95 (230VAC，full load)
	THD	≤15% (230VAC，full load)
	No-load Power Consumption	≤0.5W@230VAC
Output	Output Voltage Range	10-42VDC@300-800mA 10-40VDC@850-1050mA
	No Load Voltage	59VDC Max.
	Output Current	300mA -1050mA (Max. output)
	Max. Output Power	42W
	Efficiency	≥90% (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	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P <0.7mA
Environment	Ta/Operation Temperature	-20….+35℃
	Ts/Storage Temperature	-30….+85℃
	Tc/Enclosure Temperature	75℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.5-1.5□
	Dimension	220*31*45mm (L*W*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/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta35℃
	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

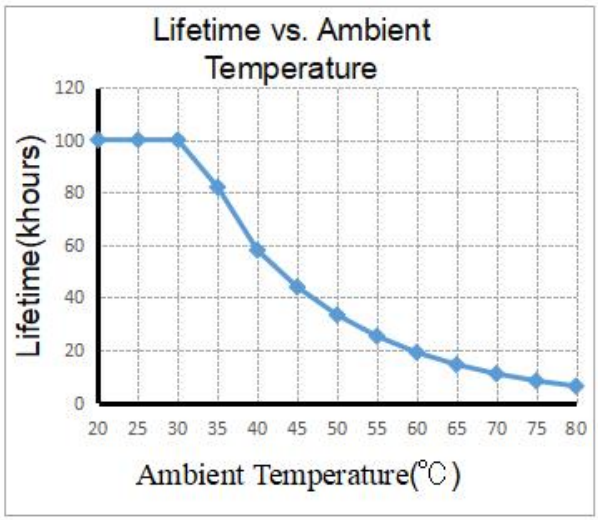
TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current（A）	Time
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		9	12	15	18	23	@230VAC	65	200US
TYPE C		15	19	24	30	37			
TYPE D		24	31	38	47	59			

3. Label

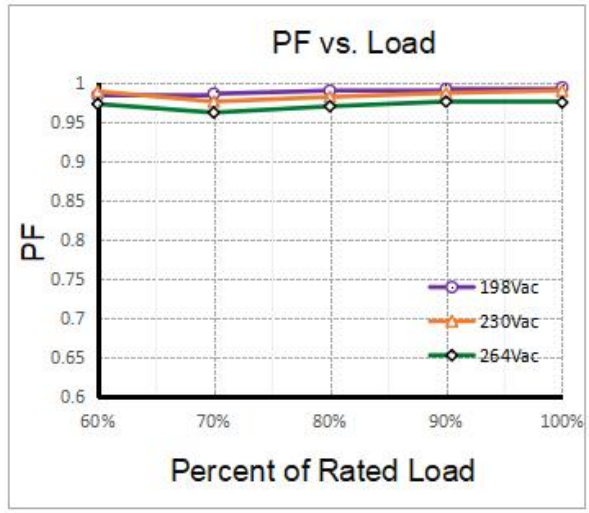


4. Electrical values

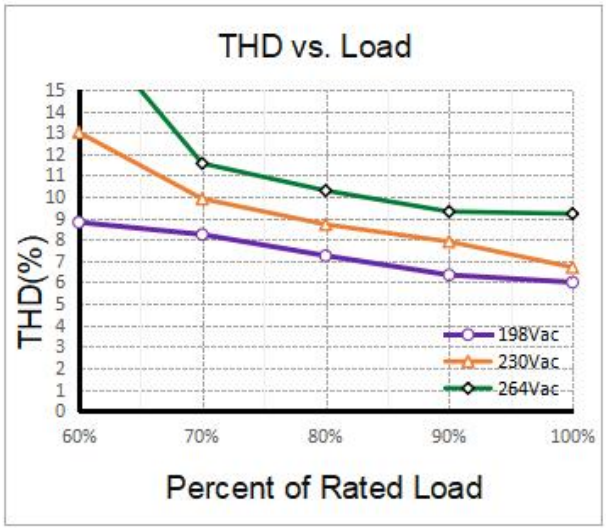
Lifetime vs. Ambient Temperature



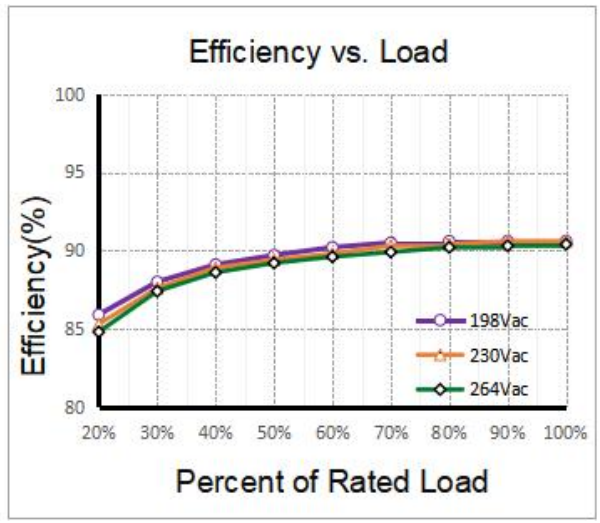
PF vs. Load



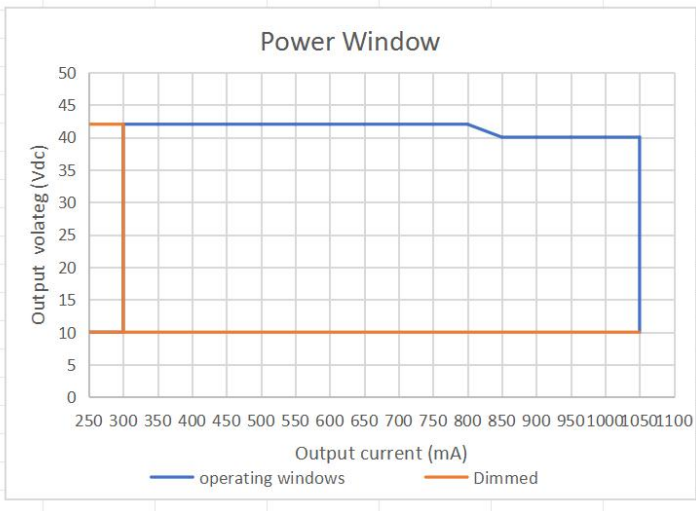
THD vs. Load



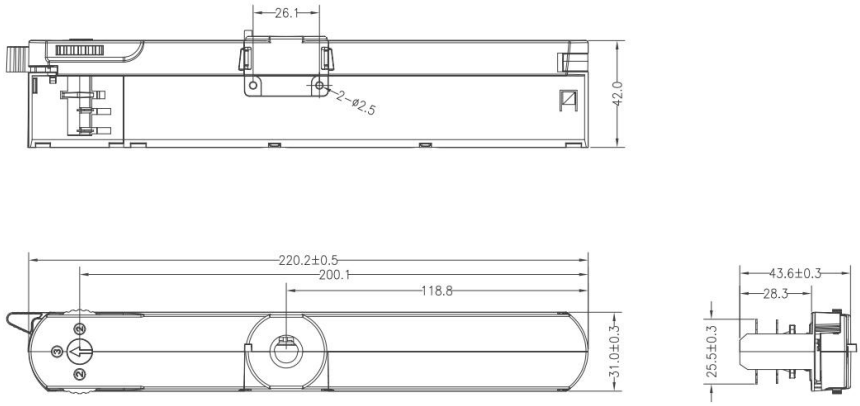
Efficiency vs. Load



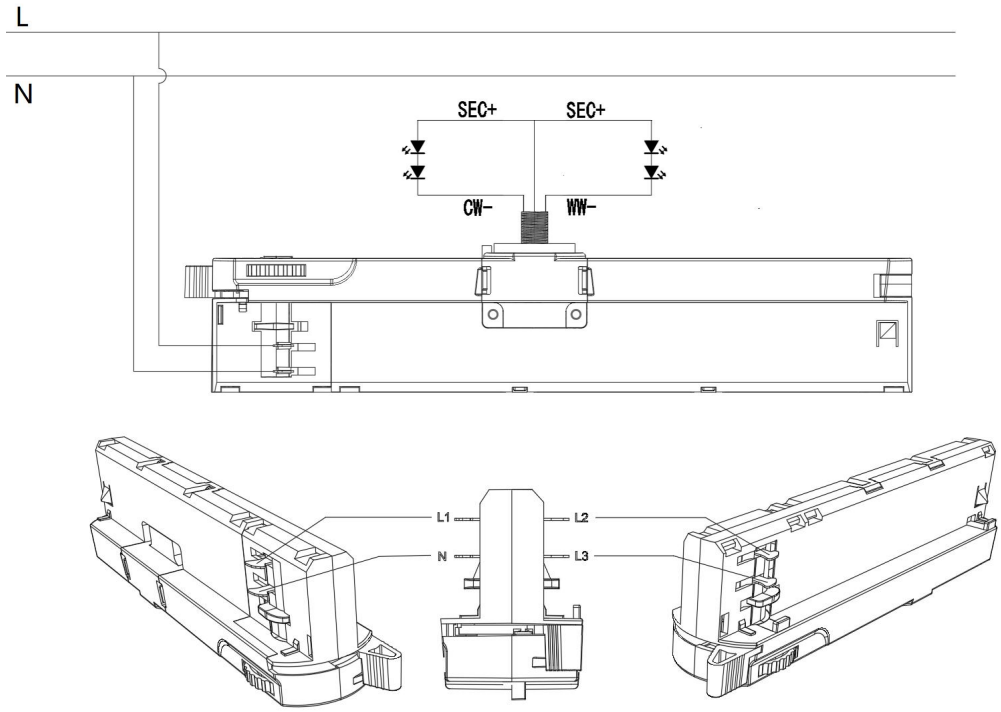
Output Power Window



5. Dimension



6. Wiring Diagram



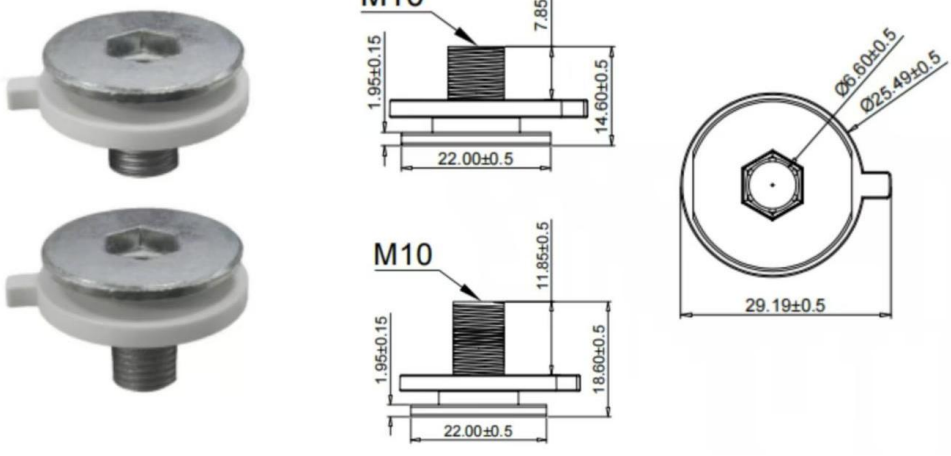
7. Packing information

Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	SC42W300-1050CG-4W 2CH IOT NFC	White	L420*W285*H220	40	0.15	6	7.3
	SC42W300-1050CG-4B 2CH IOT NFC	Black					
	SC42W300-1050CG-4G 2CH IOT NFC	Grey					

8. Ordering Data

- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment,e.g.M10x1x12
- aluminium, black, white,grey
- further on request

Model No	Item Code	Qty/ctn	Weight/pcs
SC42W300-1050CG-4W 2CH IOT NFC	146831	40	150
SC42W300-1050CG-4B 2CH IOT NFC	146641	40	150
SC42W300-1050CG-4G 2CH IOT NFC	146741	40	150
BLE 2X（Black）	153937	400	6
BLE 2X（White）	153953	400	6
BLE 2X（Grey）	153969	400	6
ZigBee X（Black）	153985	400	6
ZigBee X（White）	154001	400	6
ZigBee X（Grey）	154017	400	6
Matter WIFI X（Black）	153793	400	6
Matter WIFI X（White）	153809	400	6
Matter WIFI X（Grey）	153825	400	6
Matter Thread X（Black）	153841	400	6
Matter Thread X（White	153857	400	6
Matter Thread X（Grey）	153873	400	6
CASAMBI X（Black）	121431	400	6
CASAMBI X（White）	121451	400	6
CASAMBI X（Grey）	121441	400	6
BLE+WIFI X（Black）	153889	400	6
BLE+WIFI X（White）	153905	400	6
BLE+WIFI X（Grey）	153921	400	6
NIP M10x1x8 B G2	142261	1600	9.31
NIP M10x1x8 G G2	142271	1600	9.31
NIP M10x1x8 W G2	142281	1600	9.31
NIP M10x1x12 B G2	142211	1600	10.01
NIP M10x1x12 G G2	142221	1600	10.01
NIP M10x1x12 W G2	142231	1600	10.01



9. Suitable for following tracks

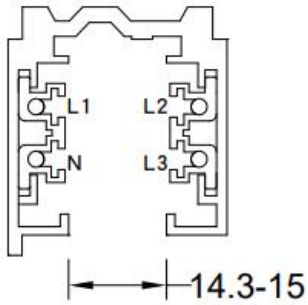
Serial number	Brand	Track model	System
1	Global	XTS11 & XTSC611	3P
2	A.A.G STUCCHL	9000-1-ST	3P
3	Eutrac	25-106	3P
4	Unipro	T32B	3P
5	PowerGEAR	Pro-0431L&Pro-D631R	3P
6	ERCO	1079301000	3P

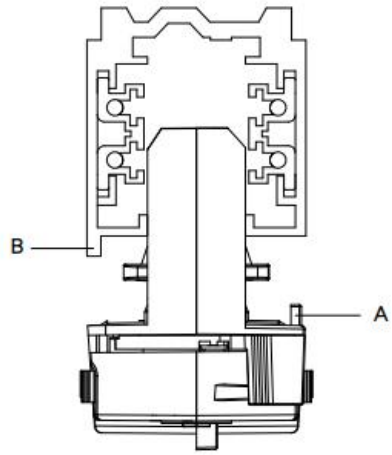
Remark:

1. The model name is XTS 4 and XTSF 4 tracks, and its brand is Global.
2. The model name used is the 9000-ST track, and its brand is A.AG STUCCHL The “XX” in the model name represents: it represents a different color.
3. The model name is 2510x tracks, and its brand is Eutrac. The “x” in the model name represents: it represents a different color (x=1 white; x=2 black; x=3 silver, x=8 grey).
4. The model name is T32B tracks, and its brand is Unipro.
5. The model name is Pro0430 tracks, and its brand isPowerGEAR.
6. The model name is1079301000 tracks, and its brand is ERCO.

KGP does not guarantee the compatibility of the tracks and the track-adapter, because manufacturing tolera nces of the tracks or changes made at the tracks by the manufacturer could affect the compatibility between the tracks and the adapter.

10. Phase track light rail specification:





11. Lighting track adapter and rail system installation diagram:





12. 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.

13. 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

14. NFC instructions

REMARK:

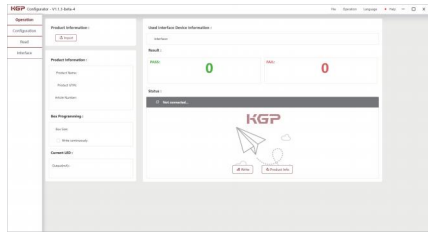
Make sure your computer has NFC capability and has it activated.

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
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.

ICON

Main



Download method

1.Scan the QR co to download

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

KGP NFC

iPhone smartphones with NFC can be downloaded and used directly

An iPhone 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

15. Revision History

DATE	REV	Modification details
2024-07-18	V1.0	Initial release.
2024-09-21	V1.1	Update photo and NFC setting
2024-12-31	V1.2	Update Nipple Dimension
2025-08-01	V1.3	Insert item code ,ordering number and update label and picture