

SC42W300-1050CG4-X-CCT-NX

Constant Current Driver

Model: SC42W300-1050CG4-X-CCT-NX



Model	Item Code	Output current	Output power range	PF	Efficiency (*Typical)	Output voltage	No load voltage	
SC42W300-1050CG4-W-CCT-NX SC42W300-1050CG4-B-CCT-NX SC42W300-1050CG4-G-CCT-NX	161900 161910 161920	300mA	3.00-12.60W	0.86	86%	10-42V	59V	
		350mA	3.50-14.70W	0.87	87%			
		400mA	4.00-16.80W	0.88	87%			
		450mA	4.50-18.90W	0.89	87%			
		500mA	5.00-21.00W	0.90	87%			
		550mA	5.50-23.10W	0.91	88%			
		600mA	6.00-25.20W	0.92	89%			
		650mA	6.50-27.30W	0.93	89%			
		700mA	7.00-29.40W	0.94	90%	10-40V		
		750mA	7.50-31.50W	0.94	91%			
		800mA	8.00-33.60W	0.95	91%			
		850mA	8.50-34.00W	0.95	91%			
		900mA	9.00-36.00W	0.96	91%			
		950mA	9.50-38.00W	0.96	91%			
		1000mA	10.00-40.00W	0.97	91%			
		1050mA	10.50-42.00W	0.97	91%			

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
	Dimming Type	Resistance knob dimmer
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 198-280VDC
	Frequency	50/60Hz

	Input Current	≤0.25A
	Input Power	≤47.2W
	Power Factor	≥0.95 (230VAC , full load)
	THD	≤20%
	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 Power	42W
	Efficiency	≥90% (600mA-900mA)
	Current Ripple	±5% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	±8% @300mA-350mA ±5% @400mA-1050mA
	PSTLM	≤ 1
	SVM	≤0.4
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	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20 ... +35℃
	Ts/Storage Temperature	-25 ... +85℃
	Tc/Enclosure Temperature	70℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.3-0.75mm²
	Dimension	178.5 x 31 x 45mm (L*W*H)
Standards	Certification	CE/ENEC
	Safety Standards	EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017,EN 62493:2015
	EMC Standards	EN IEC 55015:2019,EN IEC 55015:2019/A11:2020, EN 61547:2009,EN IEC 61000-3-2:2019, EN 61547:2009,EN IEC 61000-3-3:2013/A1:2019
	Performance	EN 62384:2006/A1:2009
	Surge	L-N/2KV
Others	RoHS	Complied to 2011/65/EU
	Life Time	50000h @ Tc
	Warranty	5years, F.R. < 10000ppm

Remark:

- 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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.The driver has a maximum output current of 1050mA, and the maximum output current is 1050mA when one output is used , typically 750mA per channel when two outputs are used.end products again.

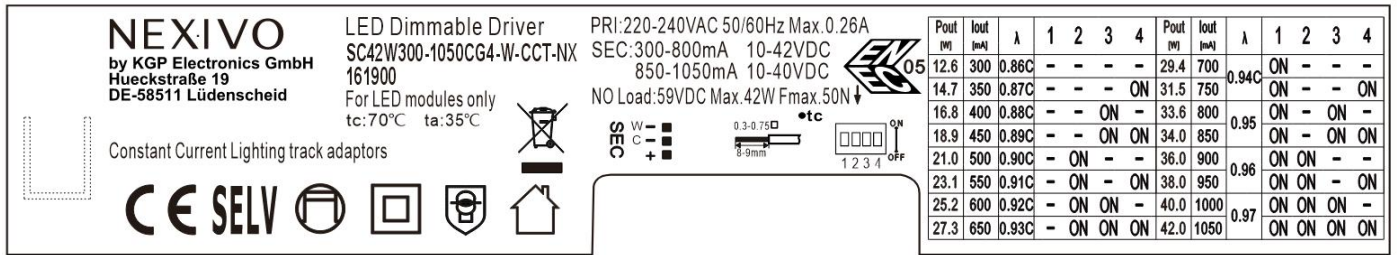
2. Output Current Setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

3. Connected quantities of different current Breaker

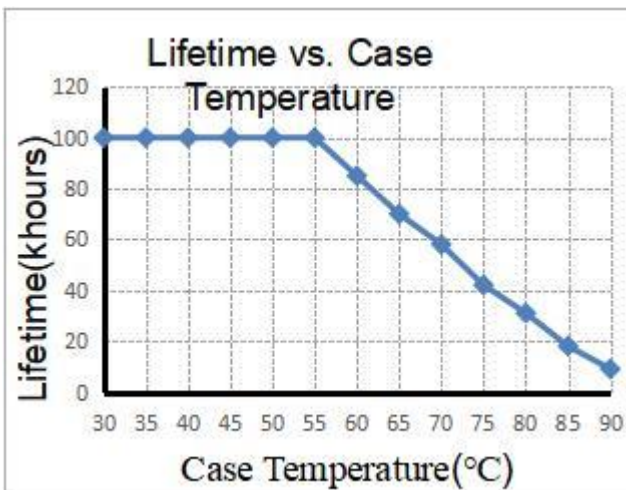
Type	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current(A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4.0mm ²	4.0mm ²			
TYPE B		13	16	20	25	31	@230VAC	48A	200us
TYPE C		20	26	32	40	50			
TYPE D		32	42	51	64	80			

4. Label

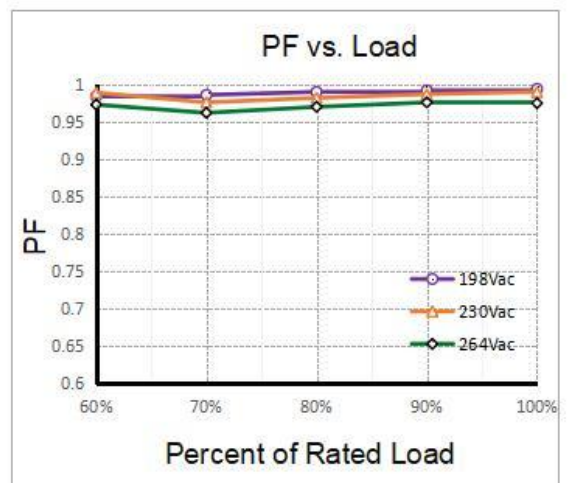


5. Electrical values

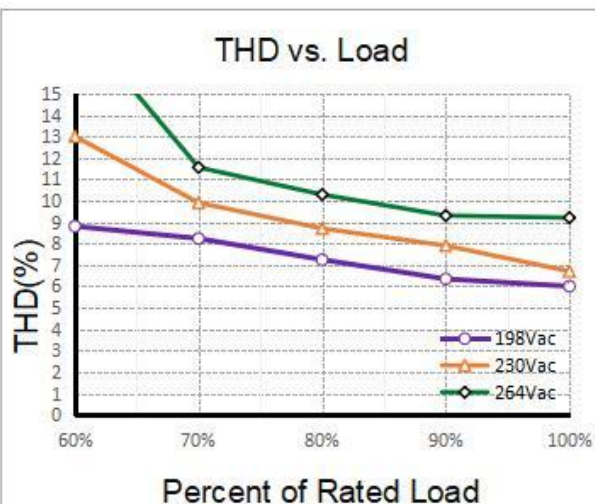
Lifetime vs. Case Temperature



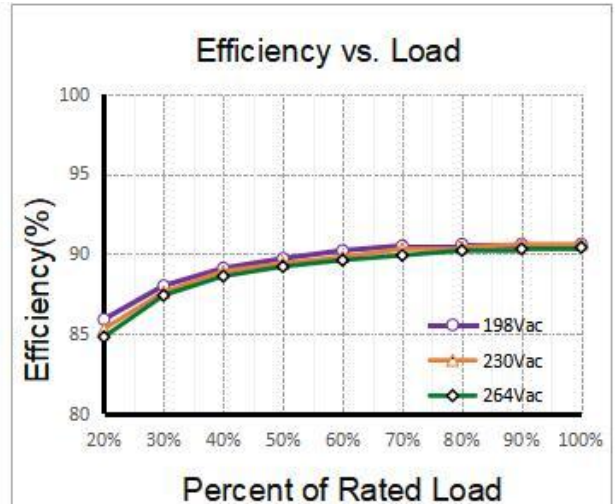
PF vs. Load



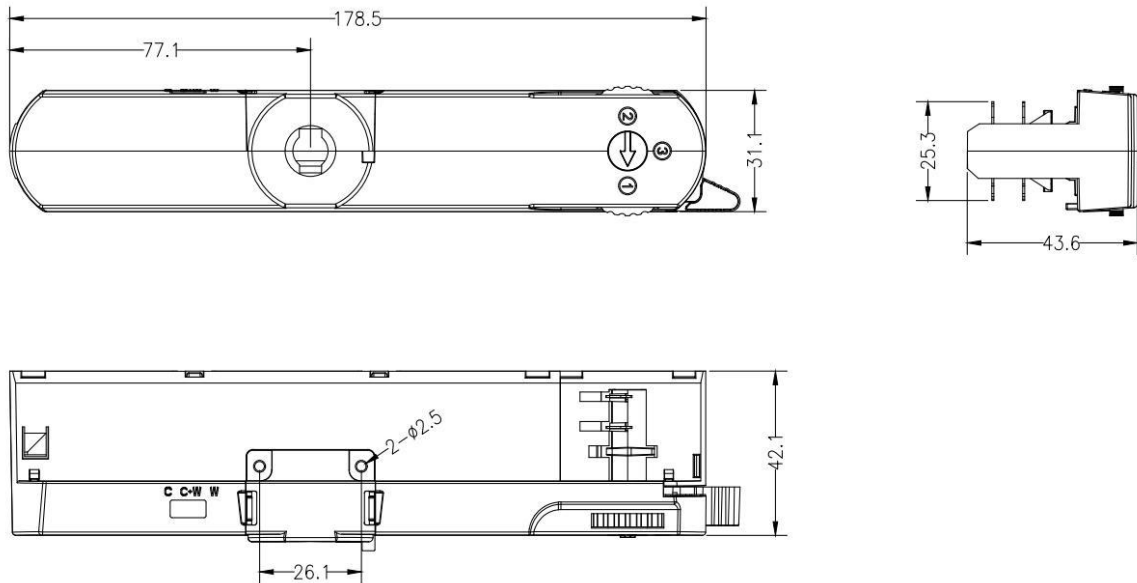
THD vs. Load



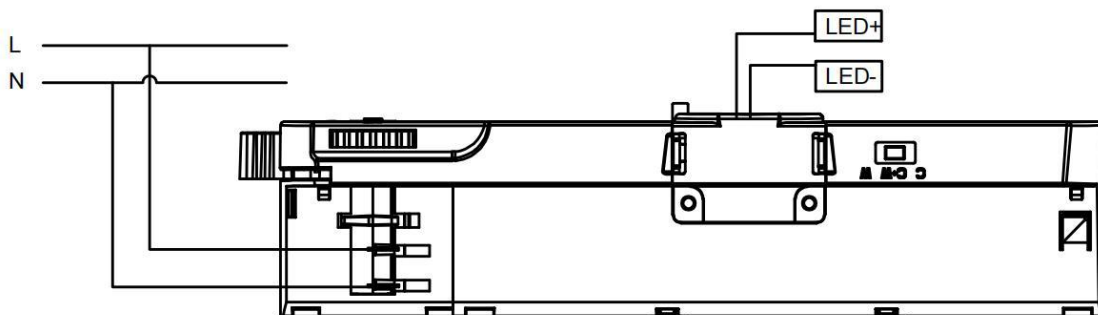
Efficiency vs. Load



6. Dimension



7. Wiring Diagram



8. Packing information

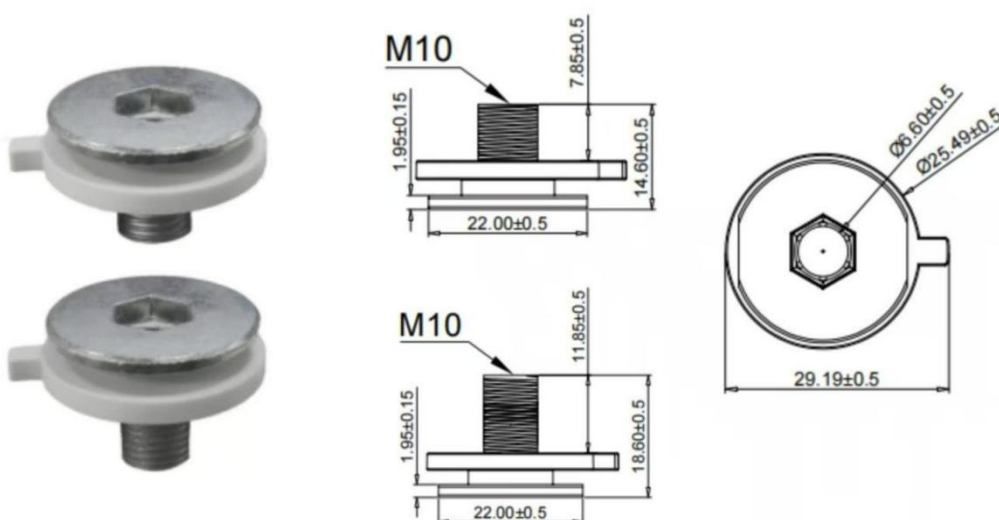
Packing way	Model	Color	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	SC42W300-1050CG4-W-CC-NX	White	415*350*225	55	0.14	7.78	8.89
	SC42W300-1050CG4-B-CC-NX	Black					
	SC42W300-1050CG4-G-CC-NX	Grey					

9. Ordering data

Model No	Item code
SC42W300-1050CG4-W-CCT-NX	161900
SC42W300-1050CG4-B-CCT-NX	161910
SC42W300-1050CG4-G-CCT-NX	161920
NIP M10x1x8 B G2	142261
NIP M10x1x8 G G2	142271
NIP M10x1x8 W G2	142281
NIP M10x1x12 B G2	142211
NIP M10x1x12 G G2	142221
NIP M10x1x12 W G2	142231

10. Lamp Screw Type

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



11. Suitable for following tracks

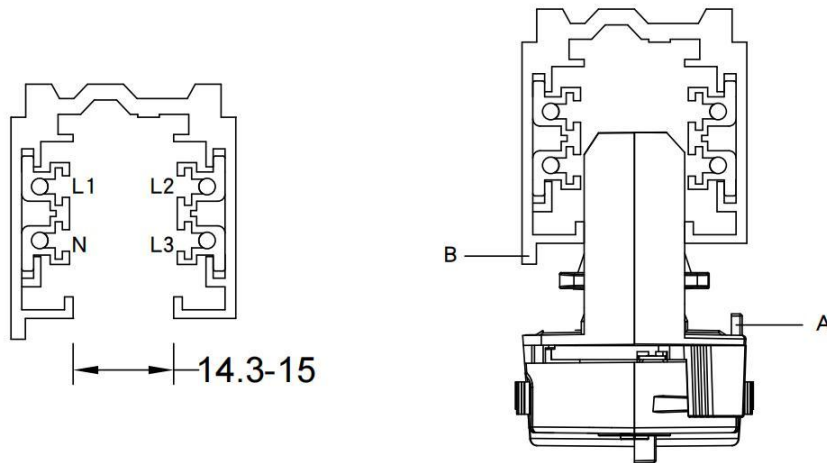
Serial number	Brand	Track model	System
1	Global	XTS11 & XTSC611	3P
2	A.A.G STUCCHL	9000A-2-ST	3P
3	Eutrac	25-106	3P
4	PowerGEAR	Pro-0431L&Pro-D631R	3P
5	ERCO	1079301000	3P

Remark:

1. The model name is XTS11 and XTSC611 tracks, and its brand is Global.
2. The model name used is the 9000A-2-ST track, and its brand is A.A.G STUCCHI.
3. The model name is 25-106 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 Pro-0431L&Pro-D631R 4 tracks, and its brand is PowerGEAR.

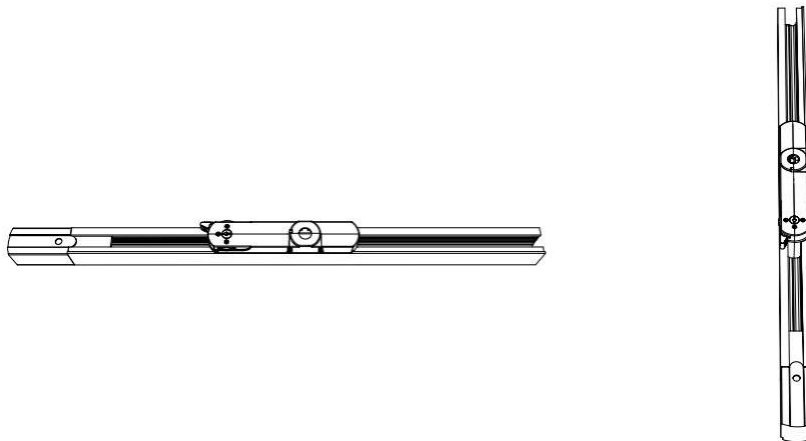
KGP does not guarantee the compatibility of the tracks and the track-adapter, because manufacturing tolerances of the tracks or changes made at the tracks by the manufacturer could affect the compatibility between the tracks and the adapter.

12. Phase track light rail specification:



*Insert the adapter into the track, note the position of the mechanical key (A) and the mechanical key (B)

13. Lighting track adapter and rail system installation diagram:



The adaptor shall be given that the use is limited to the track system specified.

14. 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 (EMI Out of the calculation)
- 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.)

15. 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

16. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release