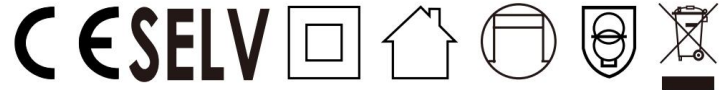


Constant Current Driver

Model: SC42W300-1050CG4-W-ED-NX

SC42W300-1050CG4-B-ED-NX

SC42W300-1050CG4-G-ED-NX



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage	
SC42W300-1050 CG4-W-ED-NX SC42W300-1050 CG4-B-ED-NX SC42W300-1050 CG4-G-ED-NX	156700	300mA	0.08A	14.50W	3.50-12.60W	0.86	87.2%	10-42V	59V Max.	
		350mA	0.09A	16.70W	3.80-14.70W	0.87	88.1%			
		400mA	0.11A	19.60W	4.00-16.80W	0.88	88.3%			
		450mA	0.12A	21.50W	4.30-18.90W	0.89	88.6%			
		500mA	0.13A	23.60W	5.50-21.00W	0.90	89.0%			
	156710	550mA	0.14A	26.00W	5.80-23.10W	0.91	89.0%			
		600mA	0.15A	28.30W	6.00-25.20W	0.92	89.0%			
		650mA	0.16A	30.70W	6.30-27.30W	0.93	89.0%			
		156720	700mA	0.17A	33.00W	7.50-29.40W	0.94			89.0%
			750mA	0.18A	35.40W	7.80-31.50W	0.94			89.0%
	800mA		0.20A	37.80W	8.00-33.60W	0.95	89.0%			
			850mA	0.21A	38.20W	8.30-34.00W	0.95	89.0%		
			900mA	0.22A	40.00W	9.50-36.00W	0.96	89.0%		
		950mA	0.22A	42.70W	9.80-38.00W	0.96	89.0%			
		1000mA	0.23A	45.00W	9.00-40.00W	0.97	89.0%			
1050mA		0.23A	47.20W	10.30-42.00W	0.97	89.0%				

* 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(compatible Class I)

Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	50/60Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.23A (230VAC, full load)
	Input Power	≤47.20W (230VAC, full load)
	Power Factor	≥0.97 (230VAC, full load)
	THD	≤8% (230VAC, full load)
	No-load Power Consumption	≤0.50W (230VAC, full load)
	Inrush Current	≤9.5A/16us (230VAC, full load)
	Connected quantity of 10A Breaker	21pcs/type A ;33pcs/type B ; 53pcs/type C
	Connected quantity of 13A Breaker	26pcs/type A ;42pcs/type B ; 68pcs/type C
	Connected quantity of 16A Breaker	33pcs/type A;53pcs/type B ; 84pcs/type C
	Connected quantity of 20A Breaker	41pcs/type A;66pcs/type B ; 105pcs/type C
Output	Output Voltage Range	10-42VDC@300-800mA 10-40VDC@850-1050mA
	No Load Voltage	59VDC Max.
	Output Current	300mA -1050mA (Max. output) , Factory set current of 300mA
	Max. Output Power	42W
	Efficiency	≥89% (230VAC, full load)
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
	Starting Delay Time	≤0.5S (230VAC, full load)
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....+35℃
	Ts/Storage Temperature	-25....+75℃
	Tc/Enclosure Temperature	75℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.3-0.75 □

	SEC Wire preparation	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	212.7*31.9*36.4 mm (L*W*H)
Standards	Certification	CE/ENEC/SAA/UKCA/EAC
	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	EN62384
	Surge	L/N-Ground:2kV; L-N:1kV
	RoHS	complied to 2011/65/EU
Others	Life Time	50000h Tc=75℃ 75000h Tc=70℃ 100000h Tc=65℃
	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.		

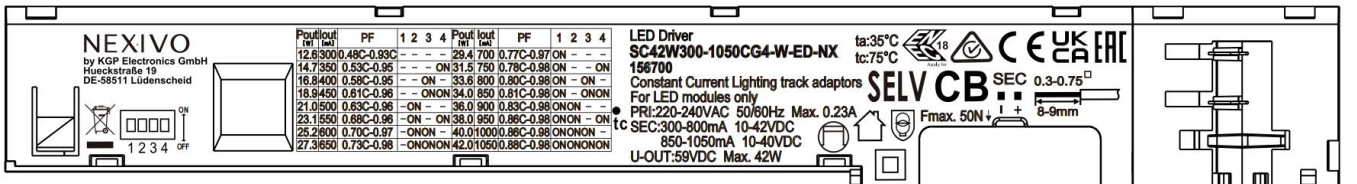
Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

2. Output current setting

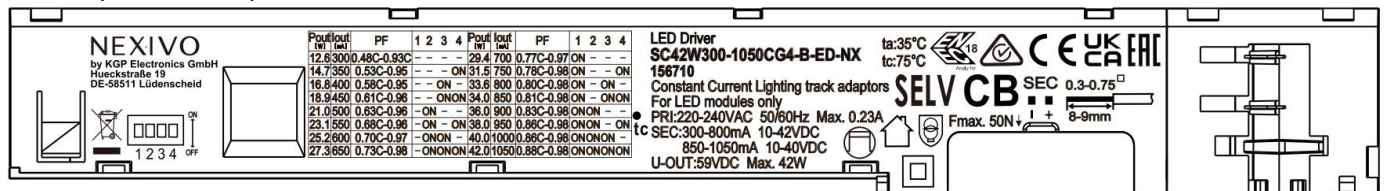
Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

3. Label

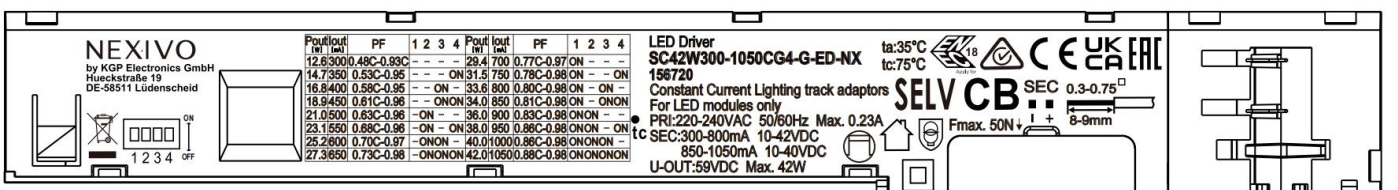
White (RAL 9016)



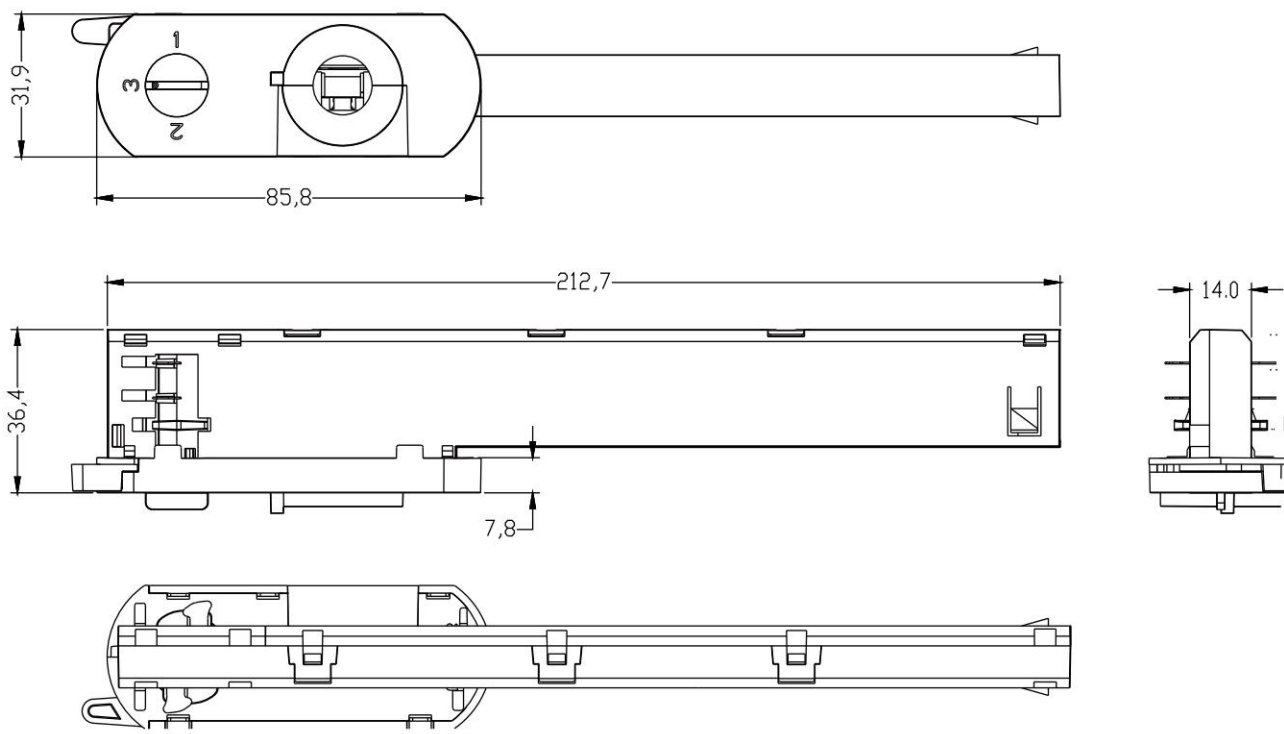
Black (RAL 9004)



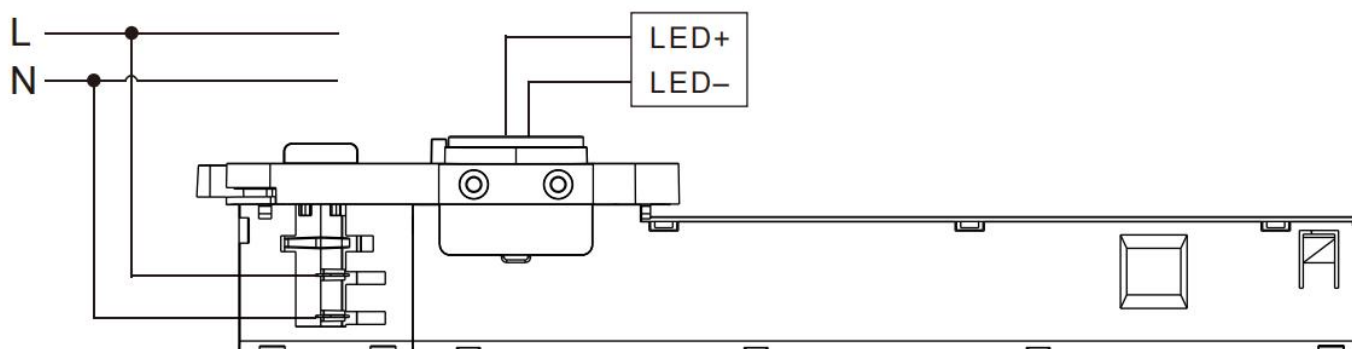
Grey (RAL 7035)



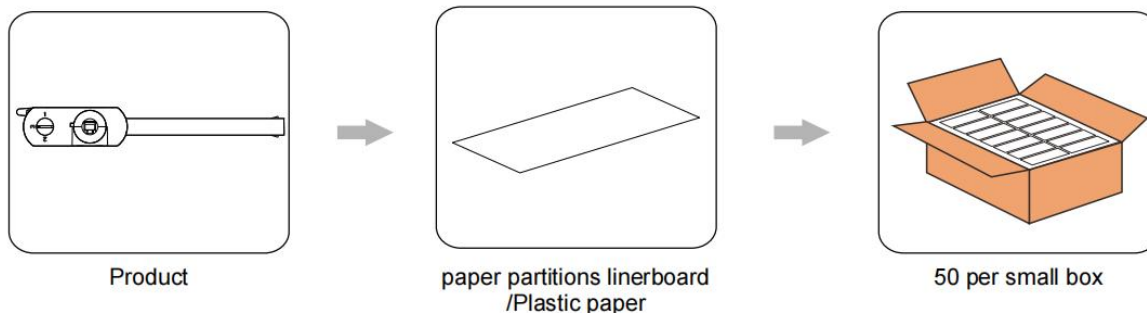
4. Dimension (Unit: mm)



5. Wiring Diagram



6. Packing information



Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
395*295*125	50	0.11	5.93	6.56

7. Ordering Data

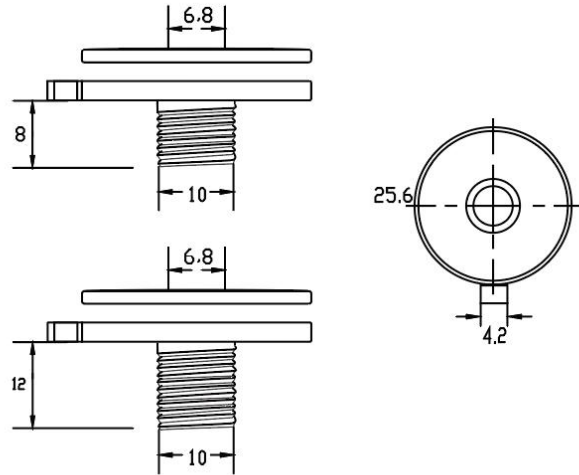
Model No	Item code
SC42W300-1050CG4-W-ED-NX	156700
SC42W300-1050CG4-B-ED-NX	156710
SC42W300-1050CG4-G-ED-NX	156720

8. Lamp Screw Type

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

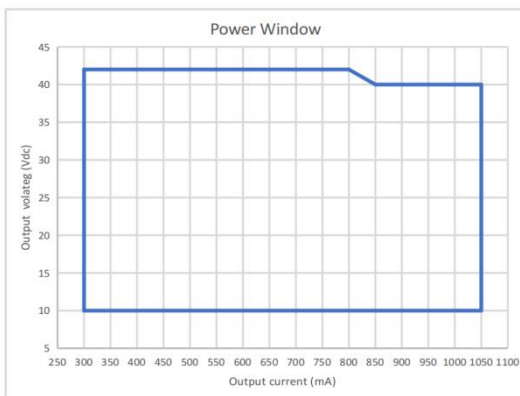
Ordering data

Type	Colour	Article number	Qty/ctn	weight/pcs
M10X1X8	White	AC094306	1200	0.016
	Black	AC094307	1200	0.016
	Aluminium	AC094310	1200	0.016
M10X1X12	White	AC094308	900	0.017
	Black	AC094309	900	0.017
	Aluminium	AC094305	900	0.017

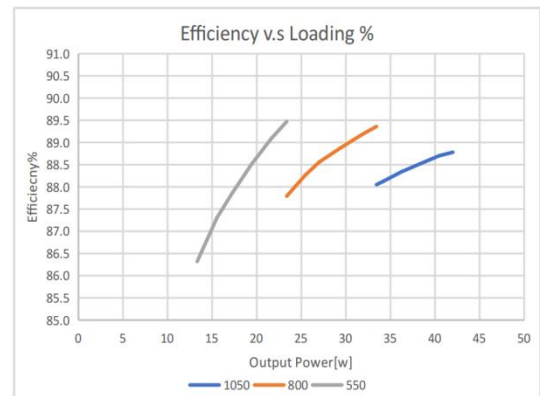


9. Electrical values

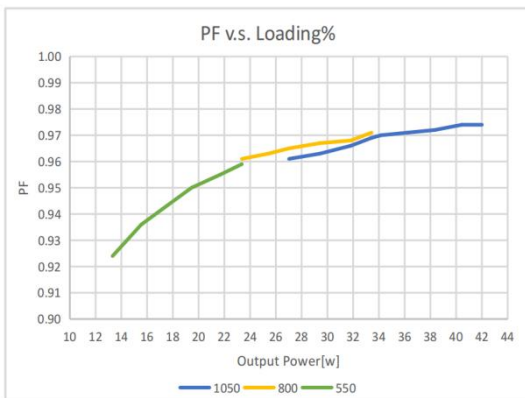
1. Operating power windows



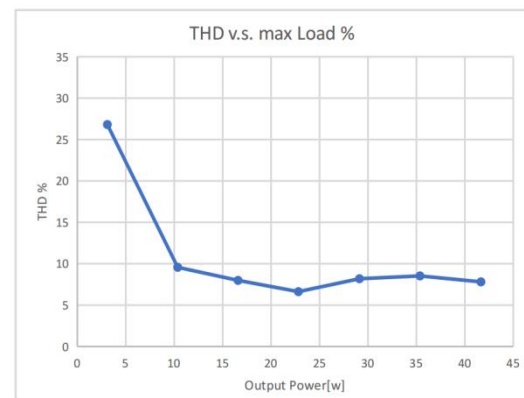
2. Efficiency v.s. Load



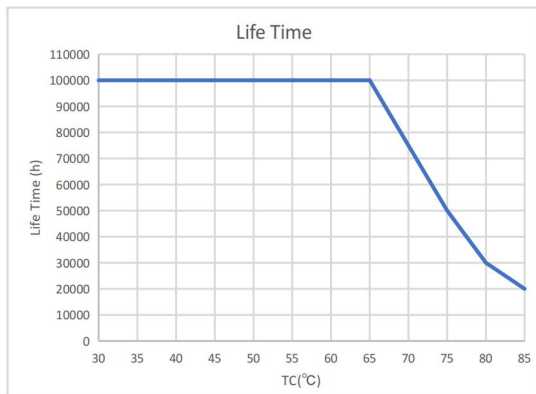
3. PF v.s. Load



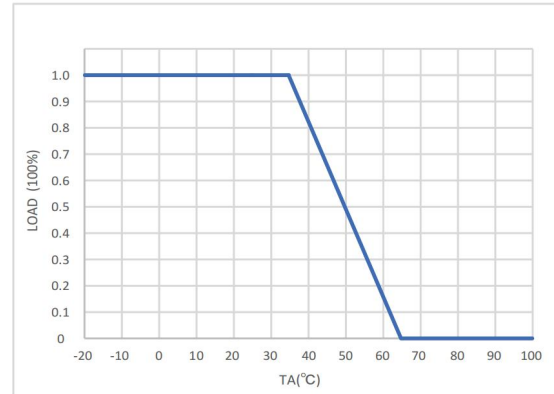
4. THD v.s. Load



5.Life time



6.Derating



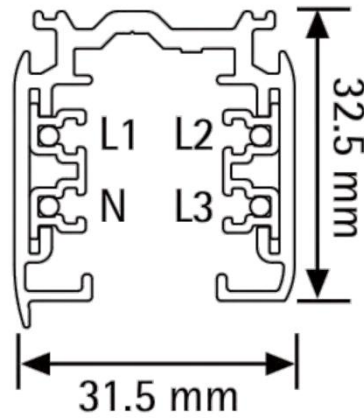
10. Suitable for following tracks

Serial number	Brand	Track model	Serial number
1	Global	XTS 4&XTSF 4	3P
2	Stucchi	9000XX Series	3P
3	Eutrac	2510x	3P
4	Unipro	T32B	3P
5	Lvela	7501	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 9000XX track,and its brand is Stucchi.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=1white;x=2 black;x=3silverx=8 grey).
4. The model name is T32B tracksand its brand is Unipro.
5. The model name is 7501 tracks, and its brand is Lvela.
6. The model name is 1079301000 tracks, and its brand is ERCO.

11. Phase track light rail specification:



12. Lighting track adapter and rail system installation diagram:



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

13. 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.)

14. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.12.06	V0.02	Suitable for following tracks