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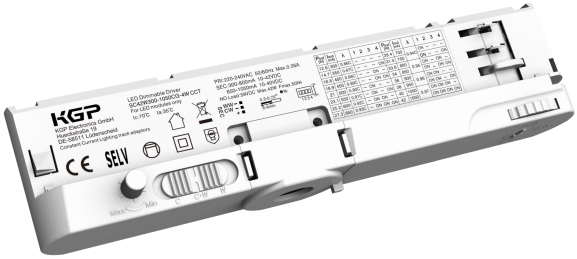
SC42W300-1050CG-4X CCT



Constant Current Driver

Model:SC42W300-1050CG-4X CCT

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
SC42W300-1050CG-4W CCT SC42W300-1050CG-4B CCT SC42W300-1050CG-4G CCT	300mA	0.07A	14.74W	3-12.6W	0.97	87%	10-42V	59V
	350mA	0.08A	16.85W	3.5-14.7W	0.98	87%	10-42V	59V
	400mA	0.09A	19.39W	4-16.8W	0.98	88%	10-42V	59V
	450mA	0.10A	21.45W	4.5-18.9W	0.98	88%	10-42V	59V
	500mA	0.12A	24.46W	5-21W	0.98	88%	10-42V	59V
	550mA	0.13A	26.52W	5.5-23.1W	0.99	88%	10-42V	59V
	600mA	0.14A	29.26W	6-25.2W	0.99	89%	10-42V	59V
	650mA	0.15A	31.05W	6.5-27.3W	0.99	89%	10-42V	59V
	700mA	0.17A	33.67W	7-29.4W	0.99	89%	10-42V	59V
	750mA	0.18A	35.84W	7.5-31.5W	0.99	90%	10-42V	59V
	800mA	0.19A	38.29W	8-33.6W	0.99	90%	10-42V	59V
	850mA	0.19A	38.54W	8.5-34W	0.99	90%	10-40V	59V
	900mA	0.20A	41.32W	9-36W	0.99	90%	10-40V	59V
	950mA	0.21A	43.26W	9.5-38W	0.99	89%	10-40V	59V
	1000mA	0.23A	45.68W	10-40W	0.99	89%	10-40V	59V
	1050mA	0.25A	47.85W	10.5-42W	0.99	89%	10-40V	59V

*** 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	Color temperature switch,Rotary Dimmer
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC or 176-280VDC
	Frequency	50/60Hz
	Input Current	≤0.25A
	Input Power	≤47.85W
	Power Factor	≥0.97 （230VAC full load）

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	THD	≤10% （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 Power	42W
	Efficiency	≥90% (600mA-900mA)
	Current Ripple	±5% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	±5%
	Started Delay Time	≤0.5S
	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	-40….+75℃
	Tc/Enclosure Temperature	70℃
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.3-0.75□
	Dimension	178.5 x 31 x 42.1mm (L*W*H)
Standards	Certification	CE
	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℃ 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. 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. Output color temperature setting

Output settings	C	C+W	W
OUT-V1	ON	ON	-
OUT-V2	-	ON	ON

4. 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		33	43	53	67	83	@230VAC	18	2.8
TYPE C		53	69	85	107	133			
TYPE D		85	111	137	171	213			

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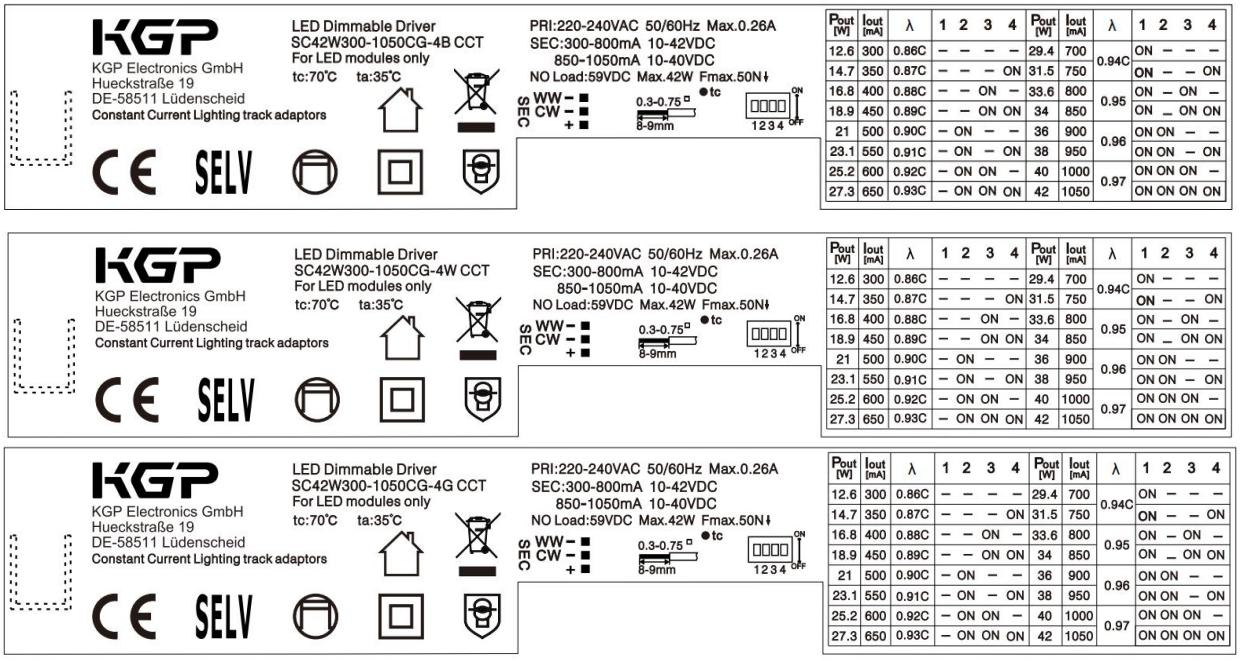
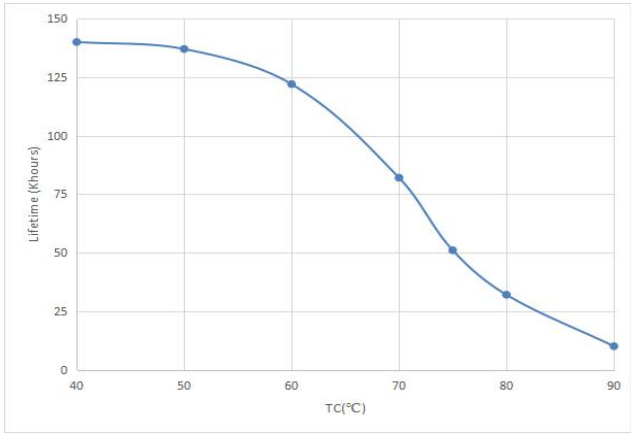
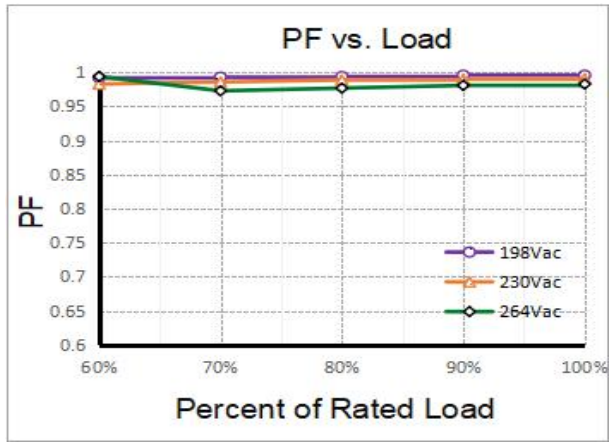
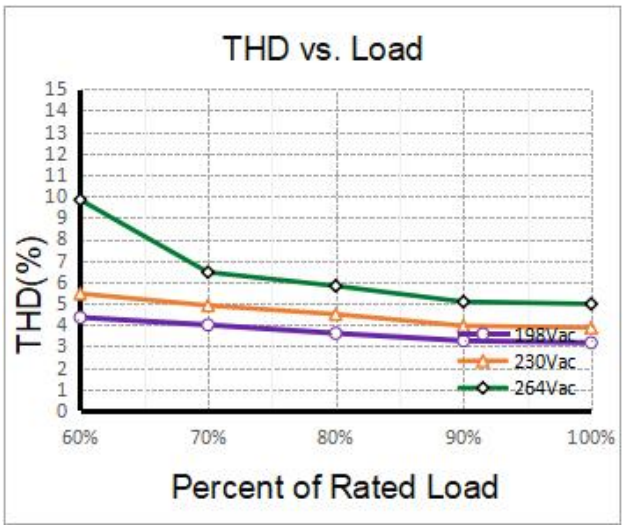
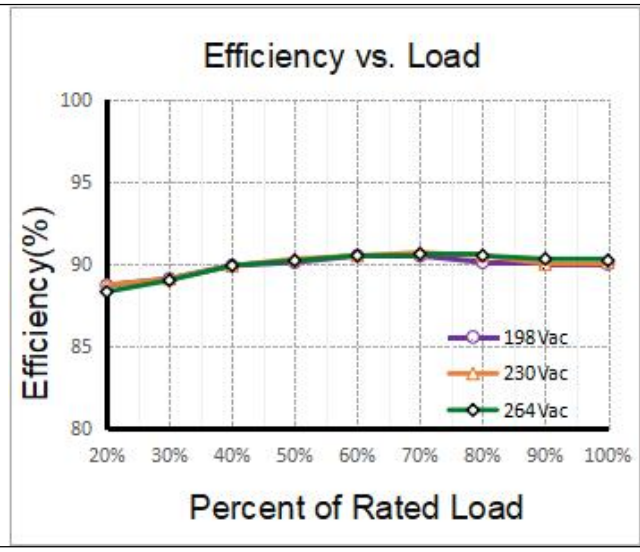
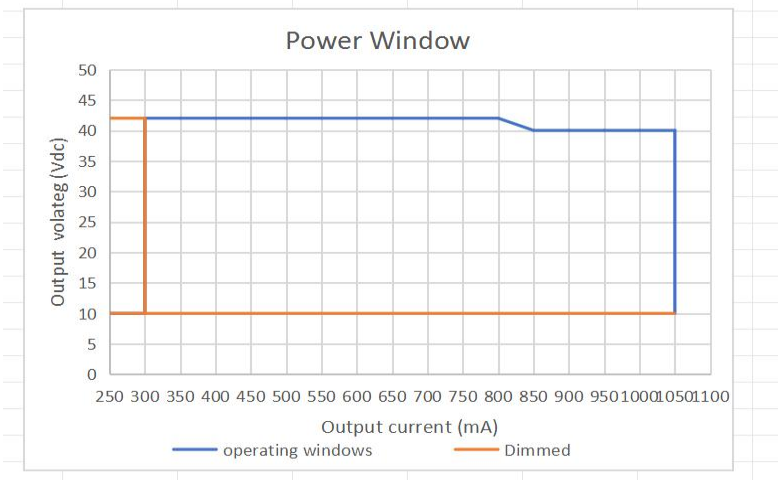
5. Label

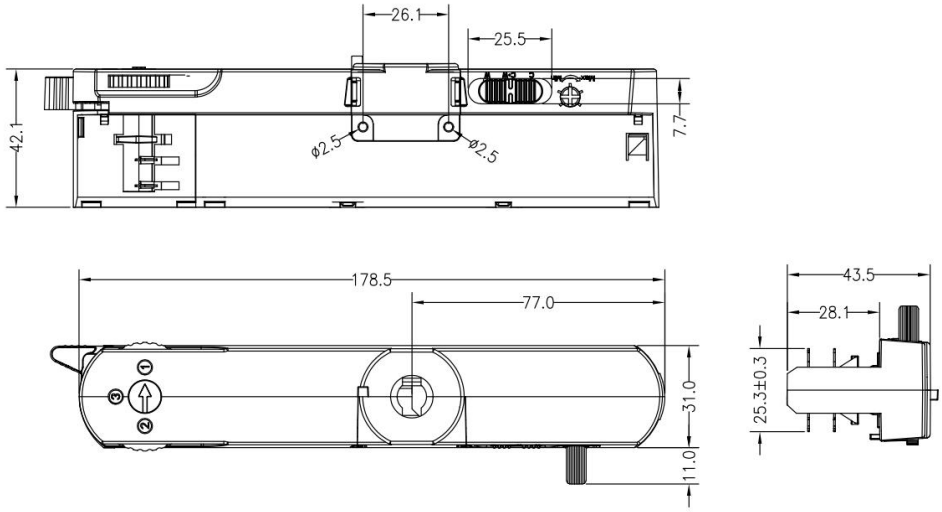


Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
12.6	300	0.86C	–	–	–	–	29.4	700	0.94C	ON	–	–	–
14.7	350	0.87C	–	–	–	ON	31.5	750		ON	–	–	ON
16.8	400	0.88C	–	–	ON	–	33.6	800	0.95	ON	–	ON	–
18.9	450	0.89C	–	–	ON	ON	34	850		ON	–	ON	ON
21	500	0.90C	–	ON	–	–	36	900	0.96	ON	ON	–	–
23.1	550	0.91C	–	ON	–	ON	38	950		ON	ON	–	ON
25.2	600	0.92C	–	ON	ON	–	40	1000	0.97	ON	ON	ON	–
27.3	650	0.93C	–	ON	ON	ON	42	1050		ON	ON	ON	ON

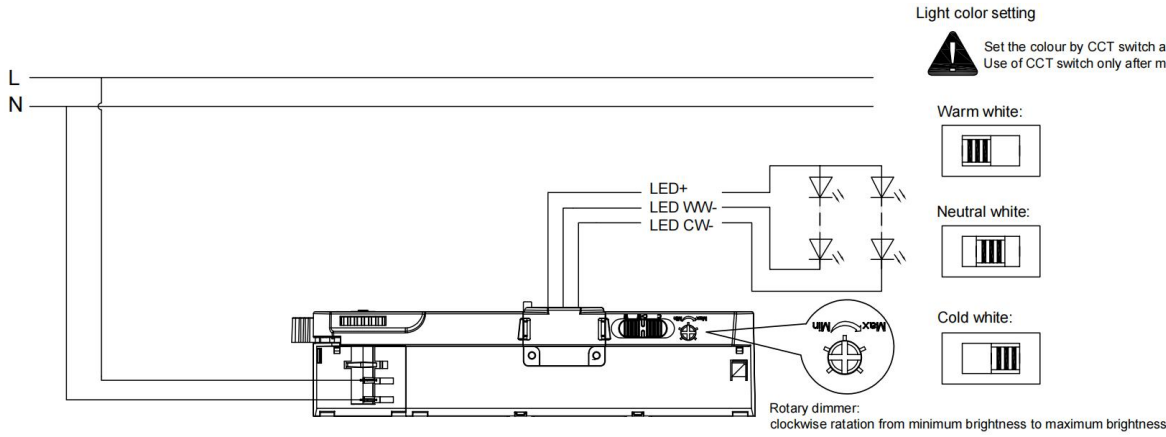
6. Electrical values

Lifetime vs. Case Temperature	PF vs. Load
	
THD vs. Load	**Efficiency vs. Load**
	
Output Power Window	
	

7. Dimension



8. Wiring Diagram



9. 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-4X CCT	White	410*275*200	35	0.128	4.48	5.58
		Black					
		Grey					

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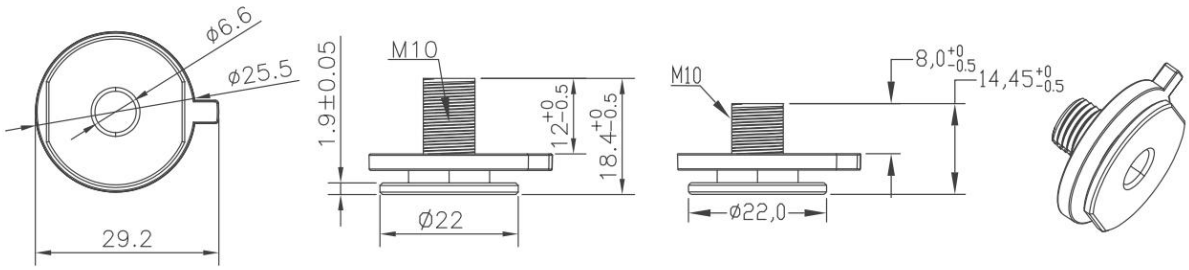
10. Lamp Screw Type

- 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	Material 1	Material 2	Weight(g)/pcs
M10x8	White	AL	PC	9.04
	Black	AL	PC	9.04
	Grey	AL	PC	9.04
M10x12	White	AL	PC	9.72
	Black	AL	PC	9.72
	Grey	AL	PC	9.72



11. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTS11 & XTSC611	3P
2	A.A.G STUCCHI	9000-1-ST	3P
3	Eutrac	2510X	3P
4	Unipro	T32B	3P
5	PowerGEAR	Pro-0431L&Pro-D631R	3P

Remark:

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

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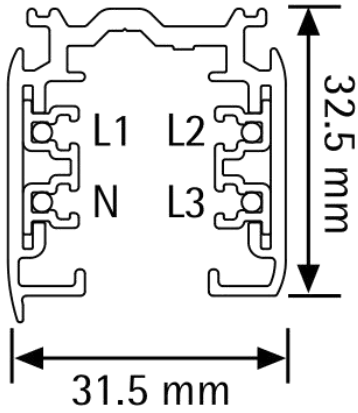
12. Phase track light rail specification:



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（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.)

14. REVISION HISTORY

DATE	VER	REMARK
2024-06-25	V1.0	Initial release.

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