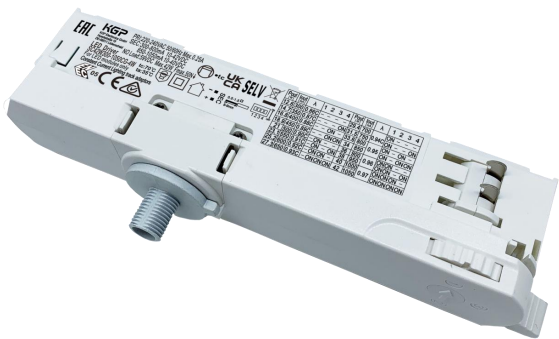
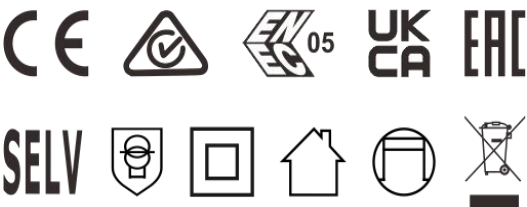




Constant Current Driver

Model: SC42W300-1050CG-4X



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (*Typical)	Output Voltage	No load Voltage
SC42W300-1050CG-4W SC42W300-1050CG-4B SC42W300-1050CG-4G	300mA	0.10A	15.00W	3.00-12.60W	0.86	85%	10-42V	59V
	350mA	0.11A	17.50W	3.50-14.70W	0.87	86%	10-42V	59V
	400mA	0.12A	19.50W	4.00-16.80W	0.88	86%	10-42V	59V
	450mA	0.13A	22.00W	4.50-18.90W	0.89	87%	10-42V	59V
	500mA	0.14A	24.50W	5.00-21.00W	0.90	87%	10-42V	59V
	550mA	0.15A	27.00W	5.50-23.10W	0.91	88%	10-42V	59V
	600mA	0.16A	30.40W	6.00-25.20W	0.92	89%	10-42V	59V
	650mA	0.17A	31.5W	6.50-27.30W	0.93	90%	10-42V	59V
	700mA	0.18A	34.00W	7.00-29.40W	0.94	91%	10-42V	59V
	750mA	0.19A	36.00W	7.50-31.50W	0.94	91%	10-42V	59V
	800mA	0.20A	38.00W	8.00-33.60W	0.95	91%	10-42V	59V
	850mA	0.21A	38.50W	8.50-34.00W	0.95	91%	10-40V	59V
	900mA	0.22A	40.5W	9.00-36.00W	0.96	91%	10-40V	59V
	950mA	0.23A	43.00W	9.50-38.00W	0.96	91%	10-40V	59V
	1000mA	0.24A	45.00W	10.00-40.00W	0.97	91.7%	10-40V	59V
	1050mA	0.25A	47.20W	10.50-42.00W	0.97	91.7%	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
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 198-280VDC
	Frequency	50/60Hz
	Input Current	≤0.25A (230VAC, full load)
	Input Power	≤47.2W (230VAC, full load)
	Power Factor	≥0.97 (230VAC, full load)

	THD	$\leq 30\%$ @300mA-350mA (230VAC, full load) $\leq 20\%$ @400mA-500mA (230VAC, full load) $\leq 15\%$ @550mA-1050mA (230VAC, full load)
	No-load Power Consumption	$\leq 0.3W$ @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	$\geq 91.7\%$ (230VAC, full load)
	Current Ripple	$\pm 5\%$ $(I_{max}-I_{min})/(I_{max}+I_{min})$
	Current Accuracy	$\pm 8\%$ @300mA-350mA $\pm 5\%$ @400mA-1050mA
	Started Delay Time	$\leq 0.5S$ (230VAC, full load)
	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	I/P to O/P $< 0.7mA$
Environment	Ta/Operation Temperature	-20....+35°C
	Ts/Storage Temperature	-25....+85°C
	Tc/Enclosure Temperature	70°C
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.5-1.5 [□]
	Dimension	158 x 31 x 45mm (L*W*H)
Standards	Certification	CE SAA ENEC UKCA EAC
	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017, EN62384:2006/A1:2009, AS61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019, EN IEC 55015:2019/A11:2019, EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019 EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta/ Tc

	Warranty	5years , F.R. < 10000ppm
	Noise	≤ 24dB
		@Background noise ≤18dB , Interval≥15cm
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.		

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 (A)	Time (us)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B		30	39	48	60	75	@230VAC	20	50
TYPE C		48	62	77	96	120			
TYPE D		77	100	123	154	192			

4. Label

ERC **KGP** PRI:220-240VAC 50/60Hz Max.0.25A
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid
SEC:300-800mA 10-42VDC
850-1050mA 10-40VDC
NO Load:59VDC Max.42W Fmax.50N↓
LED Driver
SC42W300-1050CG-4W
For LED modules only
Constant Current Lighting track adaptors

tc:70°C
ta:35°C

UK SELV

0.5-1.5
8-9mm

1 2 3 4

05

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		ON	-	-	-
14.7	350	0.87C	-	-	-	ON	31.5	750	0.94C	ON	-	-	ON
16.8	400	0.88C	-	-	ON	-	33.6	800		ON	-	ON	-
18.9	450	0.89C	-	-	ON	ON	34	850	0.95	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

ERC **KGP** PRI:220-240VAC 50/60Hz Max.0.25A
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NO Load:59VDC Max.42W Fmax.50N↓
LED Driver
SC42W300-1050CG-4B
For LED modules only
Constant Current Lighting track adaptors

tc:70°C
ta:35°C

UK SELV

0.5-1.5
8-9mm

1 2 3 4

05

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		ON	-	-	-
14.7	350	0.87C	-	-	-	ON	31.5	750	0.94C	ON	-	-	ON
16.8	400	0.88C	-	-	ON	-	33.6	800		ON	-	ON	-
18.9	450	0.89C	-	-	ON	ON	34	850	0.95	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

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SEC:300-800mA 10-42VDC
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NO Load:59VDC Max.42W Fmax.50N↓
LED Driver
SC42W300-1050CG-4G
For LED modules only
Constant Current Lighting track adaptors

tc:70°C
ta:35°C

UK SELV

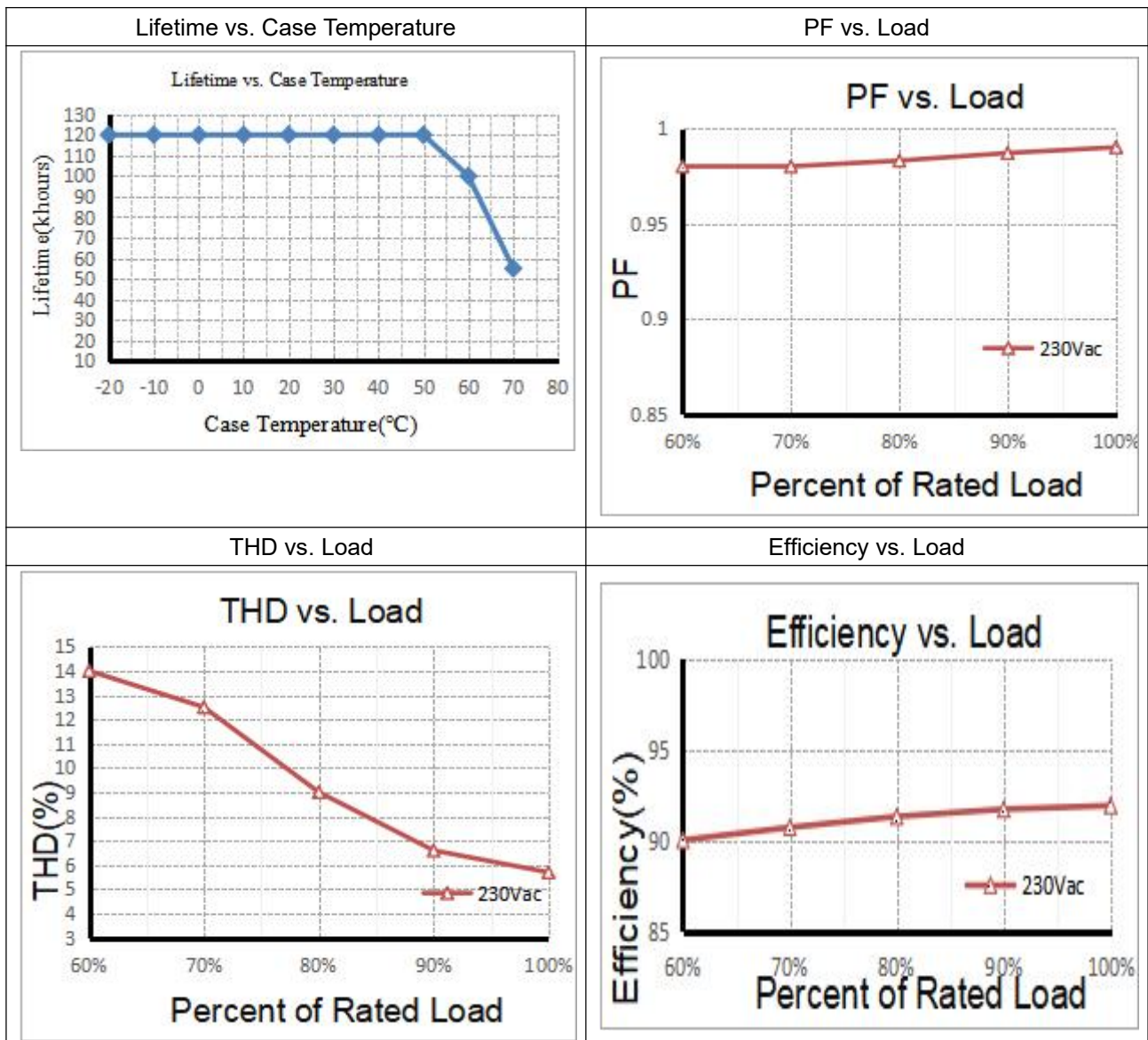
0.5-1.5
8-9mm

1 2 3 4

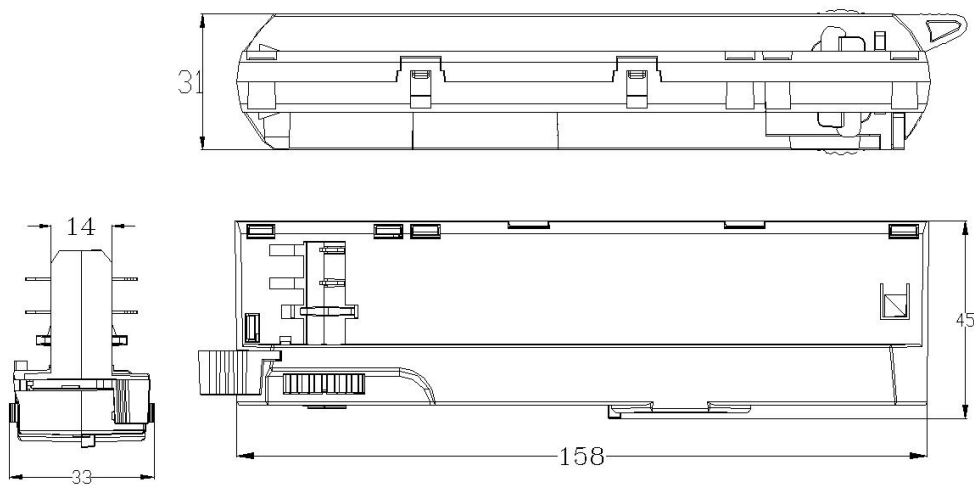
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Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
12.6	300	0.86C	-	-	-	-	29.4	700		ON	-	-	-
14.7	350	0.87C	-	-	-	ON	31.5	750	0.94C	ON	-	-	ON
16.8	400	0.88C	-	-	ON	-	33.6	800		ON	-	ON	-
18.9	450	0.89C	-	-	ON	ON	34	850	0.95	ON	-	ON	ON
21	500	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

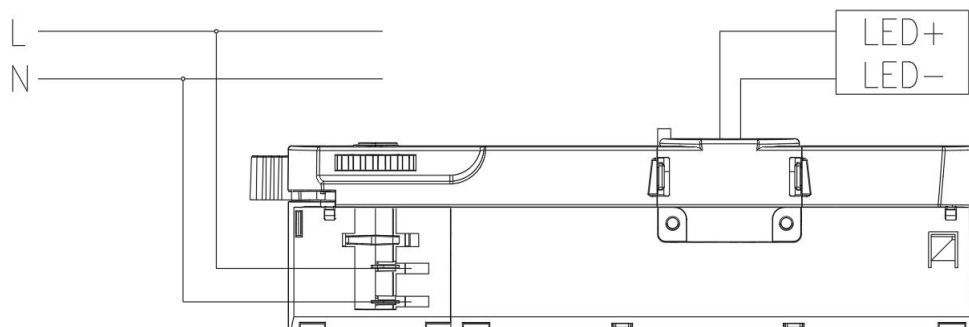
5. Electrical values



6. Dimension (Unit: mm)



7. Wiring Diagram



8. Packing information

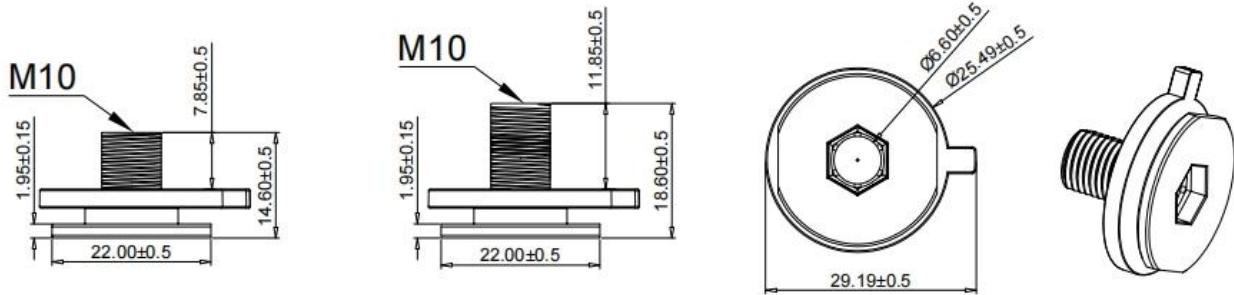
Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	SC42W300-1050CG-4W	White	515*274*370	150	0.125	18.75	20.07
	SC42W300-1050CG-4B	Black					
	SC42W300-1050CG-4G	Grey					

9. 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

Ordering data

Type	Colour	Article number	Qty/ctn	Weight(g)/pcs
M10x8	White	AL	PC	8.97
	Black	AL	PC	8.97
	Gray	AL	PC	8.97
M10x12	White	AL	PC	9.74
	Black	AL	PC	9.74
	Gray	AL	PC	9.74



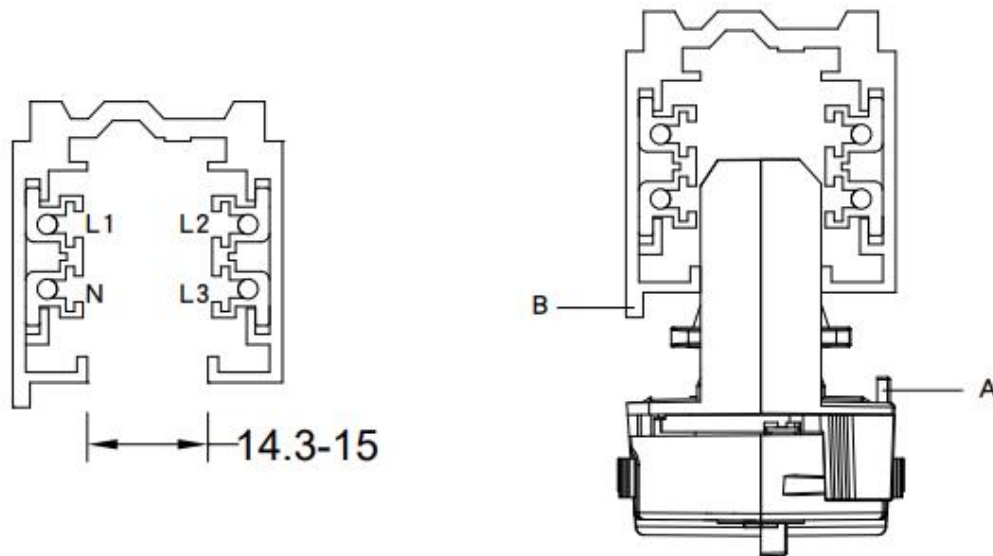
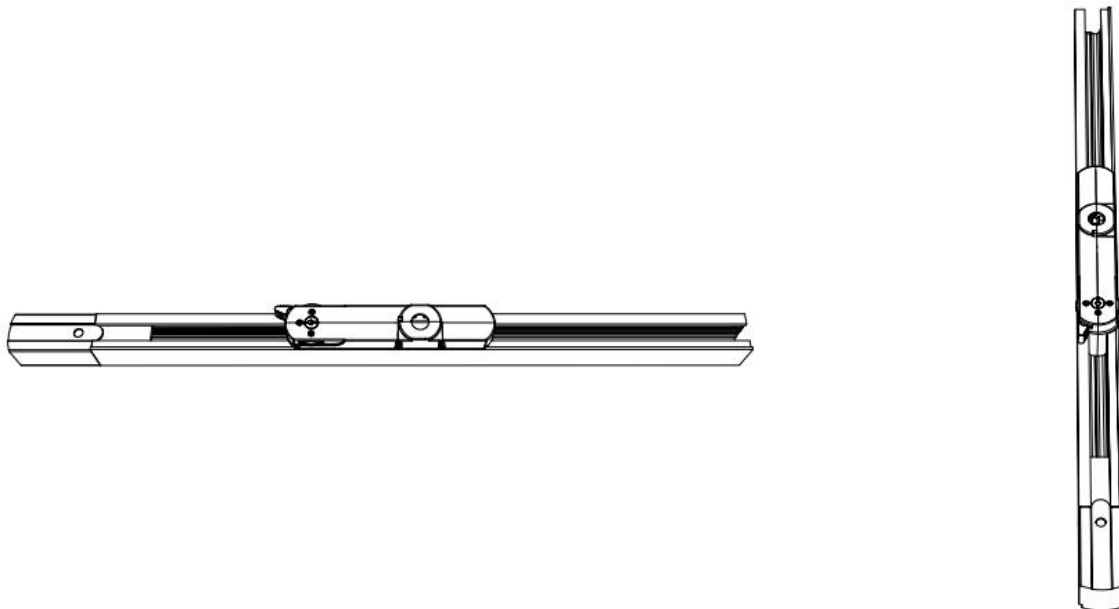
10. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTS11 & XTSC611	3P
2	A.A.G STUCCHI	9000A-2-ST	3P
3	Eutrac	25-106	3P
4	PowerGEAR	Pro-0431L	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.
4. The model name is Pro-0431L tracks, and its brand is PowerGEAR.
5. The model name is 1079301000 tracks, and its brand is ERCO.
6. If other brands are suitable, please communicate and consult first

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.

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.)
- 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.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

14. 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

15. REVISION HISTORY

DATE	VER	REMARK
2023-09-25	V1.0	Initial release.
2023-11-23	V1.1	Add graph and update efficiency
2025-02-19	V1.2	Update joint information
2025-07-09	V1.3	Update circuit breaker, Update the life curve chart