Track Adapters ON/OFF

SC25W300-650CG-2X
SC25W300-650CG-3X
SC42W700-1000CG-2X
SC42W700-1000CG-3X





Constant current lighting track adapters

Product features

- Dip Switch selectable current output
- Supply voltage 220-240 Vac ± 10%
- Range input voltage 198-264 Vac
- Range DC input voltage 198-280 Vdc
- Frequency: 50/60 Hz
- Class II
- Power factor ≥0,92 (at full load for 25W)
  ≥0,9 (at full load for 42W)
- Low ripple ±5%
- Low THD ≤15% (at full load)
- SELV
- 50.000 Hours lifetime (At Tc = 50℃ for 25W)
- 50.000 Hours lifetime (At Tc = 60℃ for 42W)
- 5 Years guarantee

Product benefit

- Compact shape
- Flexible configuration with Dip Switch
- Wide voltage range (15-42V)
- Energy saving, High Efficiency

Application

- Shops
- Home living room/ Dining room
- Residential
- Office/Co working space
- Art museum / Exhibition space
- Track lights

Product parameters

Model	Watt Range	Input Voltage	Mains current (mA)	Inrush current (A/μs)	DC Operation Range	Output Voltage	Output Current	Efficiency (typical)	Power factor (full load)	Rippel 100Hz(%)
SC25W300-650CG-2X SC25W300-650CG-3X	4.5-12.6W	220-240VAC	≤0.12A	≤ 20A/100us	198-280VDC	15-42V	300mA	84.0%	≥0.86	±5%
	5.2-14.7W		≤0.13A				350mA	85.0%	≥0.88	
	6.0-16.8W		≤0.14A				400mA	86.0%	≥0.90	
	6.7-18.9W		≤0.15A				450mA	87.0%	≥0.90	
	7.5-21.0W		≤0.17A				500mA	87.0%	≥0.90	
	8.2-23.1W		≤0.18A				550mA	87.0%	≥0.92	
	9.0-25.2W		≤0.19A				600mA	88.0%	≥0.92	
	9.7-27.3W		≤0.20A				650mA	88.0%	≥0.92	
SC42W700-1000CG-2X SC42W700-1000CG-3X	10.5-29.4W	220-240VAC	≤0.20A	≤ 60A/100us	198-280VDC	15-42V	700mA	87.0%	≥0.90	±5%
	11.3-31.5W		≤0.21A				750mA	87.0%	≥0.90	
	12.0-33.6W		≤0.22A				800mA	87.0%	≥0.90	
	12.8-35.7W		≤0.23A				850mA	88.0%	≥0.90	
	13.5-37.8W		≤0.24A				900mA	88.0%	≥0.90	
	14.2-39.9W		≤0.25A				950mA	89.0%	≥0.90	
	15.0-42.0W		≤0.26A				1000mA	89.0%	≥0.90	

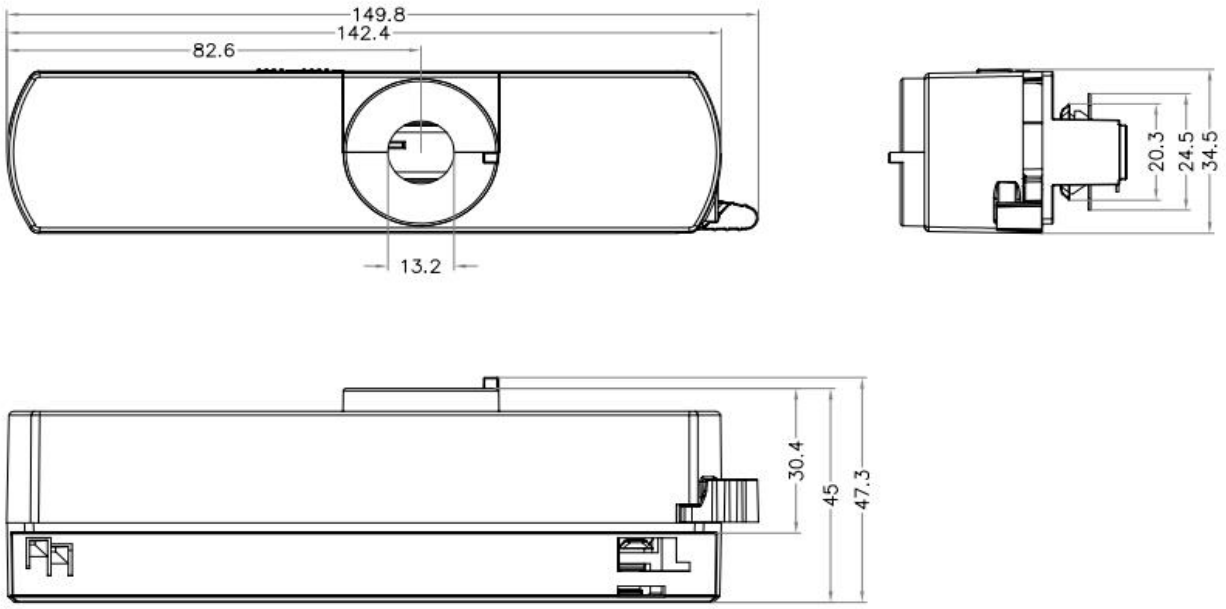
Opertational temperatures and humidity

Ambient temperature range	-20 ... +35℃
Operation humidity range	10 ... 90%
Storage temperature range	-35 ... +85℃
Storage humidity range	10 ... 90%
Maximum temperature at tc point	50℃（25W） 60℃（42W）

Expected lifetime

Expected lifetime at measured temp. at tc point	Ta=35℃	50000h

Dimensions: 149.8 x 47.3 x 34.5mm(L*W*H)

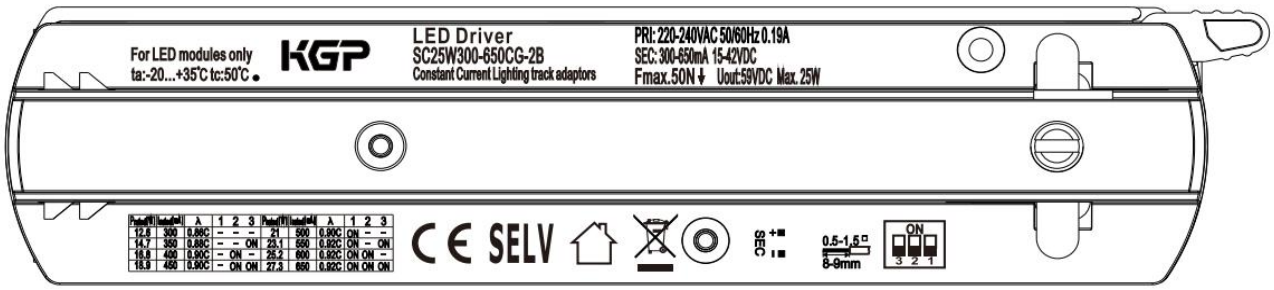


Wiring And Connections

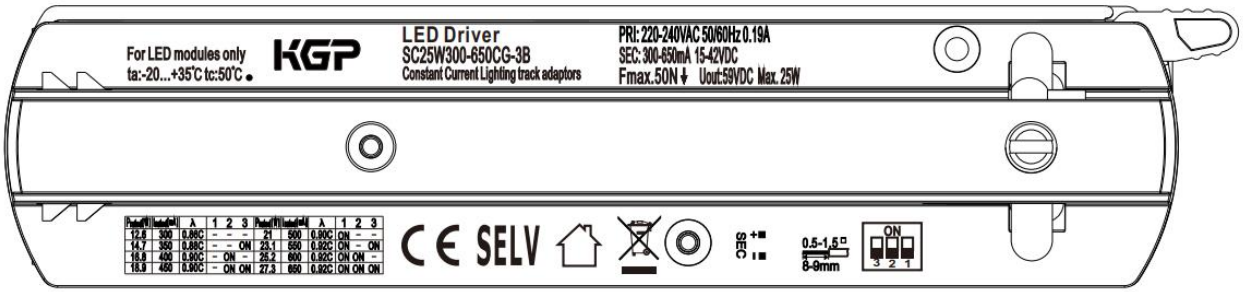
Connectors	Push in terminal
Output wire cross-section	0.5-1.5 mm²
Output wire strip lenght	8-9 mm
Maximum length	0.5 m

Product Label

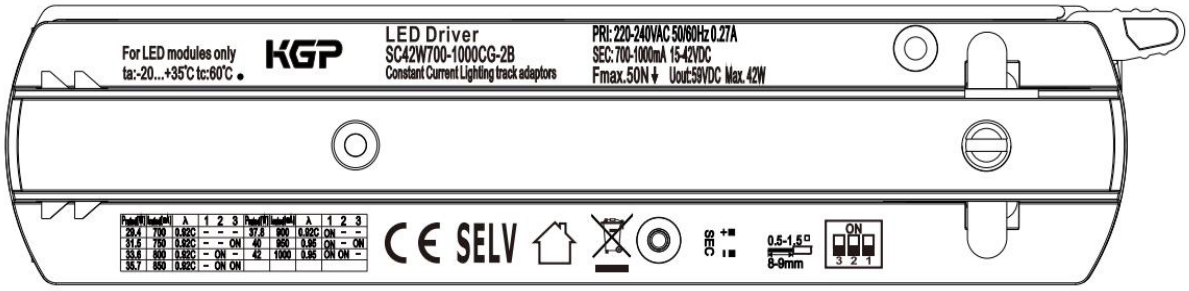
SC25W300-650CG-2B（Example）



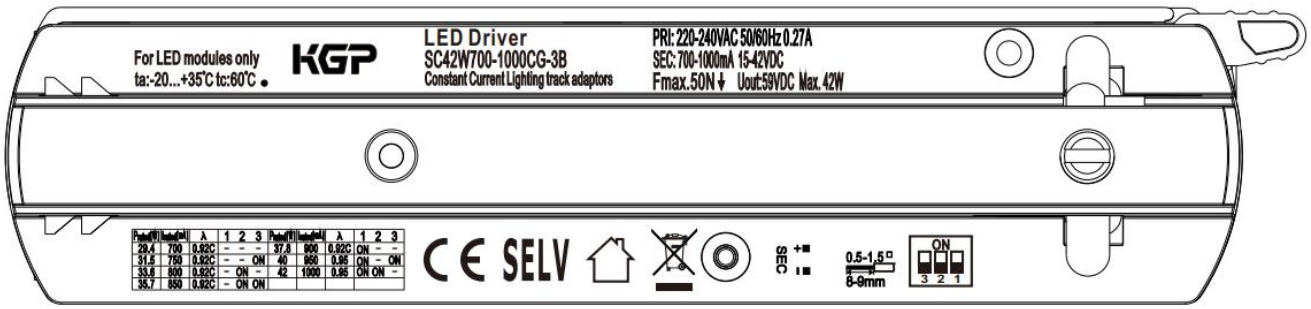
SC25W300-650CG-3B（Example）



SC42W700-1000CG-2B（Example）



SC42W700-1000CG-3B（Example）



Dip Switch seetings

SC25W300-650CG-2X
SC25W300-650CG-3X

PIN 1	PIN 2	PIN 3	I rated (mA)	P rated (W)	U rated (V)	Factory settings (mA)
OFF	OFF	OFF	300mA	12.6	15-42V	650mA
OFF	OFF	ON	350mA	14.7		
OFF	ON	OFF	400mA	16.8		
OFF	ON	ON	450mA	18.9		
ON	OFF	OFF	500mA	21		
ON	OFF	ON	550mA	23.1		
ON	ON	OFF	600mA	25.2		
ON	ON	ON	650mA	27.3		

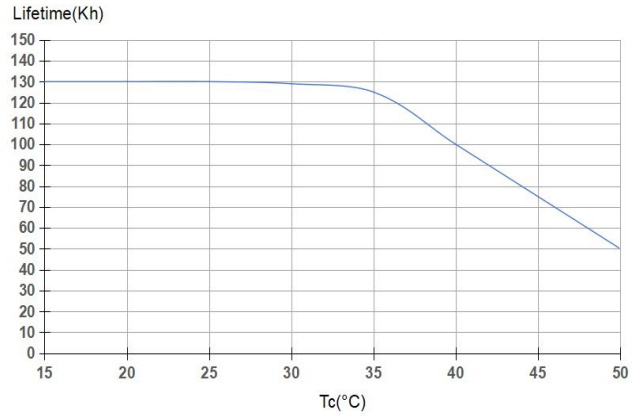
SC42W700-1000CG-2X
SC42W700-1000CG-3X

PIN 1	PIN 2	PIN 3	I rated (mA)	P rated (W)	U rated (V)	Factory settings (mA)
OFF	OFF	OFF	700mA	29.4	15-42V	1000mA
OFF	OFF	ON	750mA	31.5		
OFF	ON	OFF	800mA	33.6		
OFF	ON	ON	850mA	35.7		
ON	OFF	OFF	900mA	37.8		
ON	OFF	ON	950mA	39.9		
ON	ON	OFF	1000mA	42		

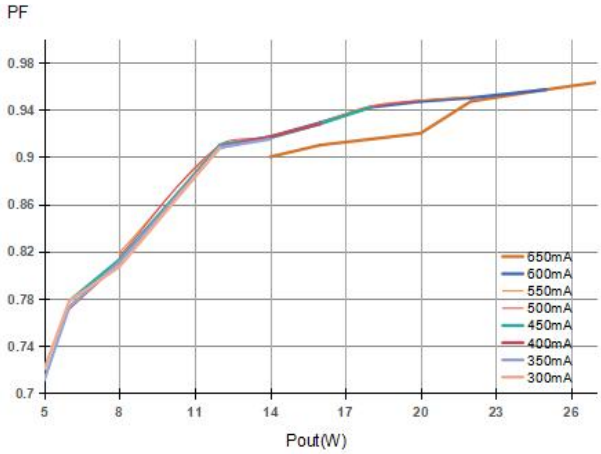
Graphs

SC25W300-650CG-2X
SC25W300-650CG-3X

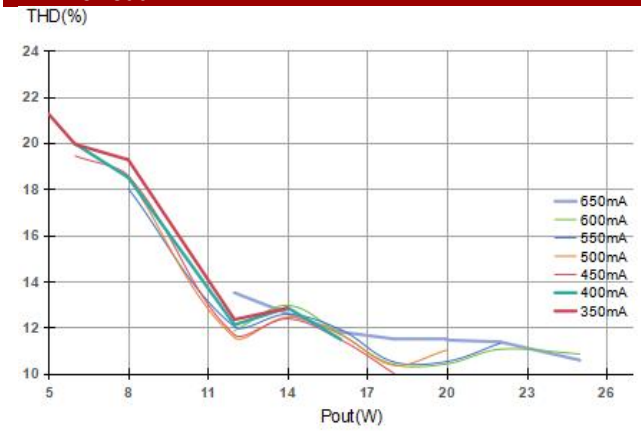
Lifetime vs. Case Temperature



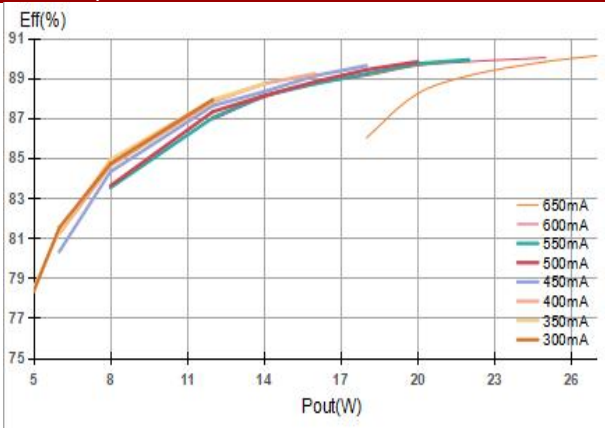
PF vs.Load



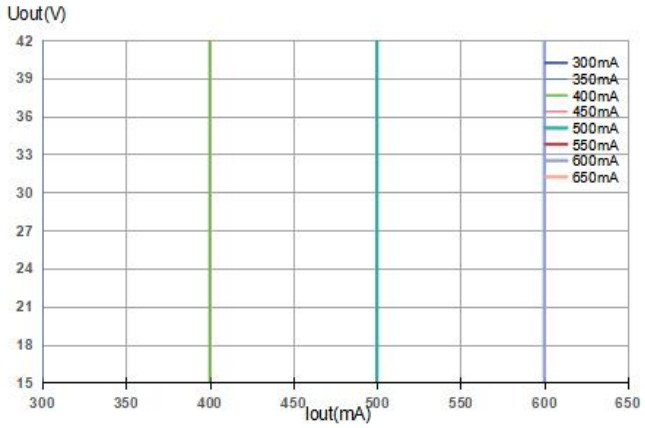
THD vs.Load



Efficiency vs. Load



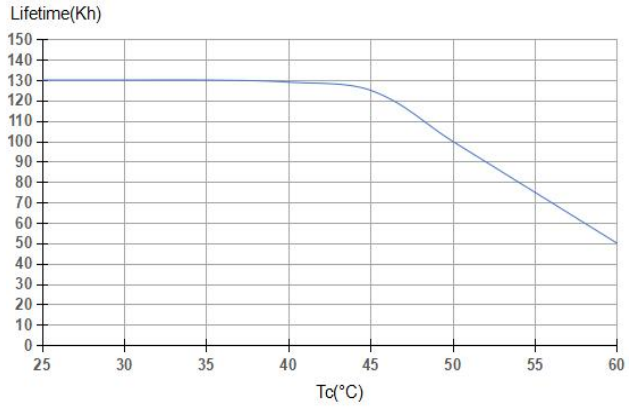
Uout vs.Iout



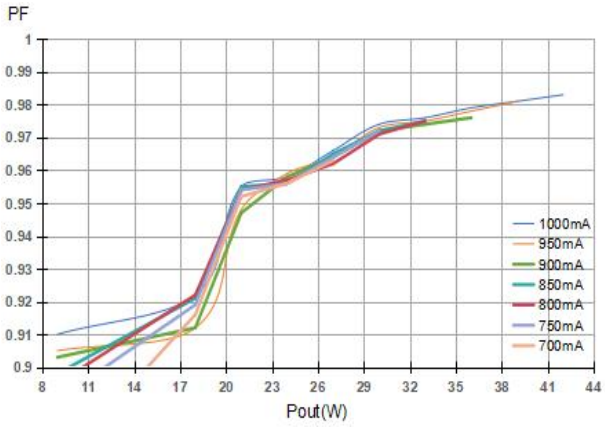
Graphs

SC42W700-1000CG-2X
SC42W700-1000CG-3X

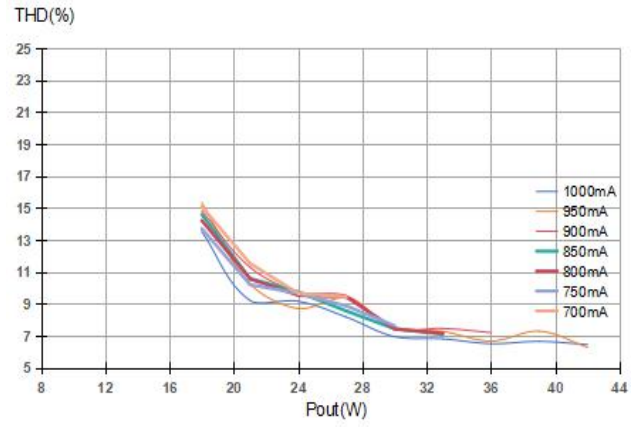
Lifetime vs. Case Temperature



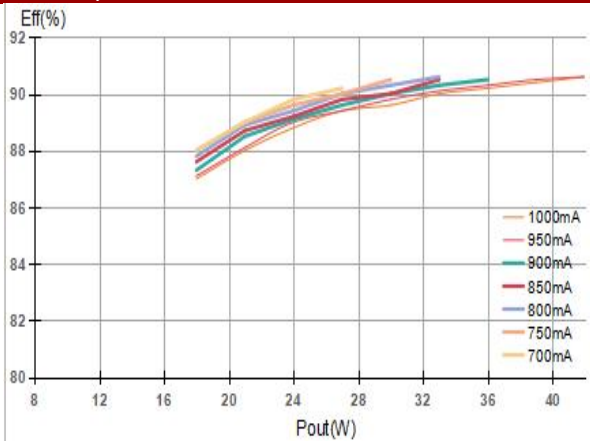
PF vs.Load



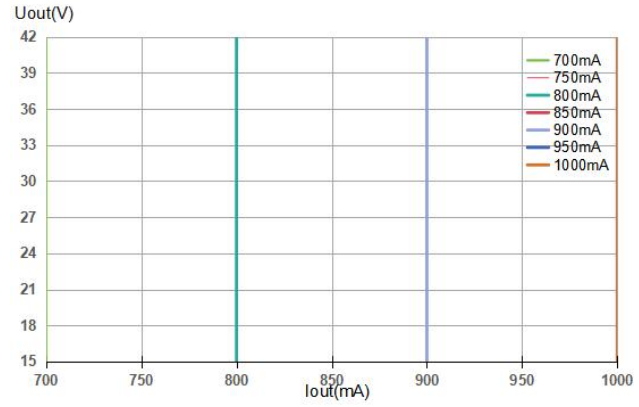
THD vs.Load



Efficiency vs. Load



Uout vs.Iout



Certificates and standards

EN 61347-1:2015/A1:2021
EN 61347-2-13:2014/A1:2017
EN IEC 62384:2020
EN 62493:2015/A1:2022
AS61347.2.13:2018
AS/NZS61347.1:2016 Inc A1 Amd 1:2018
GB 17625.1-2022
GB/T 17743-2021
GB 19510.1-2023
GB 19510.213-2023
EN IEC 55015:2019/A11:2020
EN IEC 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021
EN IEC 61547:2023
BS EN 61347-1:2015/A1:2021
BS EN 61347-2-13:2014/A1:2017
BS EN 62493:2015/A1:2022
BS EN IEC 62384:2020
BS EN IEC 55015:2019
BS EN IEC 55015:2019+A11:2020
BS EN IEC 61000-3-2:2019/A1:2021
BS EN 61000-3-3:2013+A2:2021
BS EN IEC 61547:2023



Safety Features

- Transient mains peaks protection:
  Values are in compliance with EN62384
  (Interference Immunity)
  Surges between L-N:up to 2kV
- Short-Circuit Protection: The control gear is protected against
- Permanent short-circuit with automatic restart function.
- Overload Protection: The control gear only works in range of rated output power and voltage (<42VDC)
- Please check before switch-on mains power supply that the selected LED load is
  suitable (see Electrical Characteristics on data sheet).
- Overheating: The control gear has overheating protection.
- No Load Operation: The control gear is protected against no load operation(open load)
- If any of the above mentioned safety functions will be triggered disconnect the control gear from the power supply then
- Find and eliminate the cause of the problem.

- SELV
- SVM<0,4
- PstLM<1
- Open Circuit Voltaje (Umax):59V
- Noise:≤ 20dB @Background noise ≤15dB, Interval≥20cm
- Insulation voltage: 3000V 5mA 60S between P-S
- Leakage current: I/P to O/P <0.7mA

Suitable for following tracks

SC25W300-650CG-2X
SC42W700-1000CG-2X

Serial Number	Brand	Track Model	System
1	Jinbadi	JBD-T-2	2P
2	renying	2A04	2P

Remark

The model name is JBD-T-2 tracks, and its brand is Jinbadi.
The model name is 2A04 tracks, and its brand is Renying.
If other brands are suitable, please communicate and consult first.

SC25W300-650CG-3X
SC42W700-1000CG-3X

Serial Number	Brand	Track Model	System
1	PowerGEAR	PRO-0310	3P
2	PowerGEAR	PRO-N310	3P
3	Jinbadi	JBD-A-03	3P
4	Renying	CNT-3001	3P

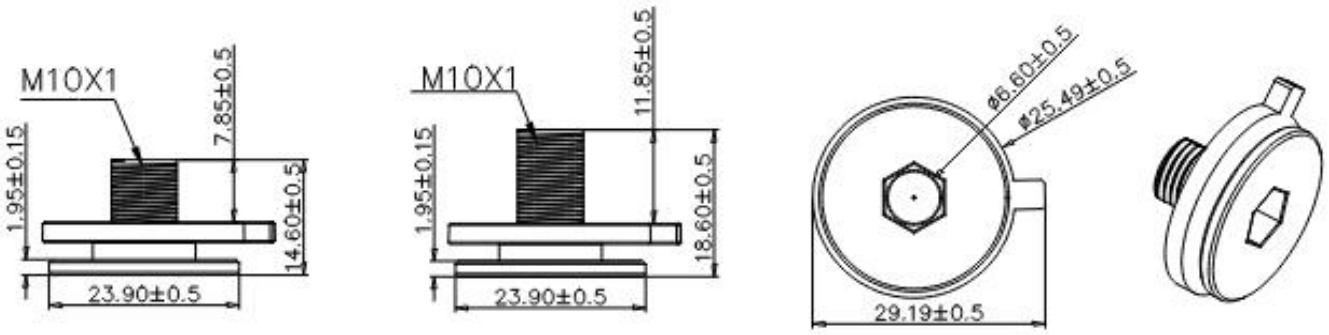
Remark

The model name is PRO-0310 tracks, and its brand is PowerGEAR.
The model name is PRO-N310 tracks, and its brand is Renying.
The model name is JBD-A-03 tracks, and its brand is Jinbadi.
The model name is CNT-3001 tracks, and its brand is Renying.
If other brands are suitable, please communicate and consult first.

Nipples

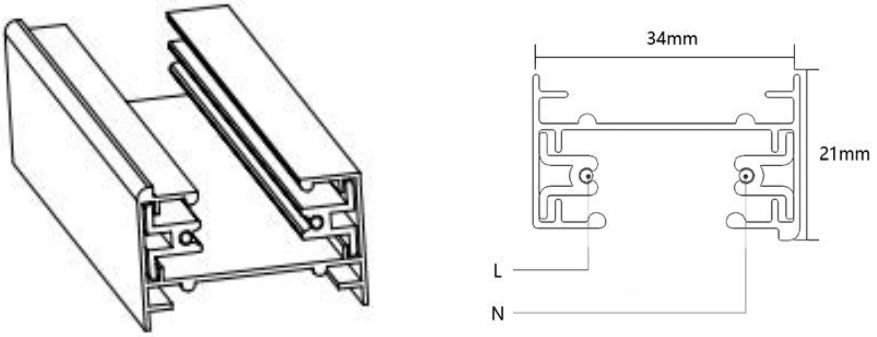
- Lamp Screw Type
- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment,e.g.M10x1x12
- Gray, Black, White
- Further on request

Type	Colour	Article Number	Qty/Ctn	Weight(g)/Pcs
M10x8	White	AL	PC	9,31
	Black	AL	PC	9,31
	Gray	AL	PC	9,31
M10x12	White	AL	PC	10,01
	Black	AL	PC	10,01
	Gray	AL	PC	10,01

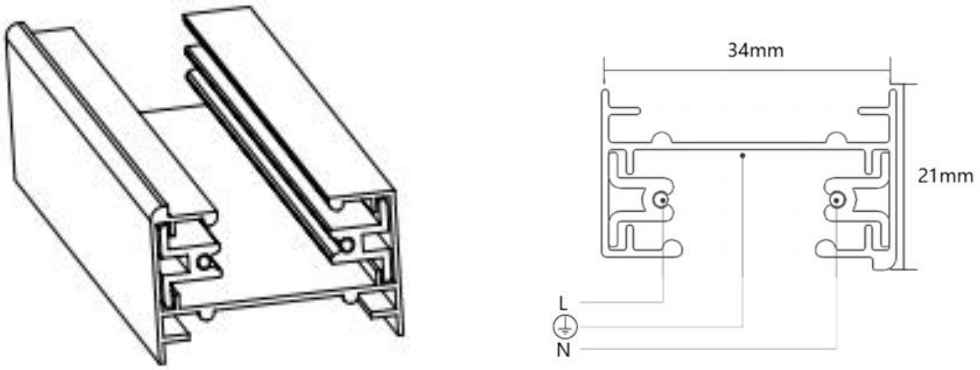


Phase track light rail specification

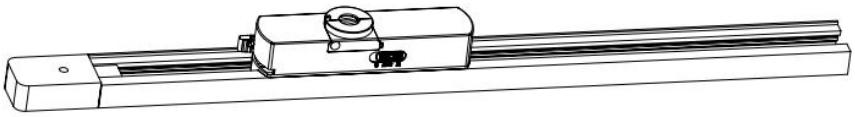
SC25W300-650CG-2X
SC42W700-1000CG-2X

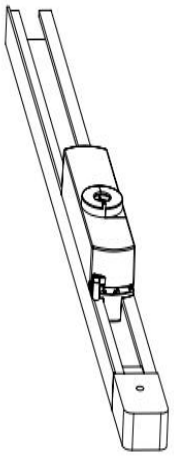


SC25W300-650CG-3X
SC42W700-1000CG-3X



Lighting track adapter and rail system installation diagram

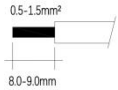




The adaptor shall be given that the use is limited to the track system specified.

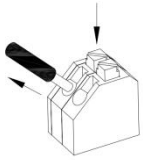
Electrical installation

- Connection terminals: Push-in terminals for rigid or flexible conductors with a section of Built-in:0,5-1,5mm² PVC cable
- Stripped Length: 8-9mm



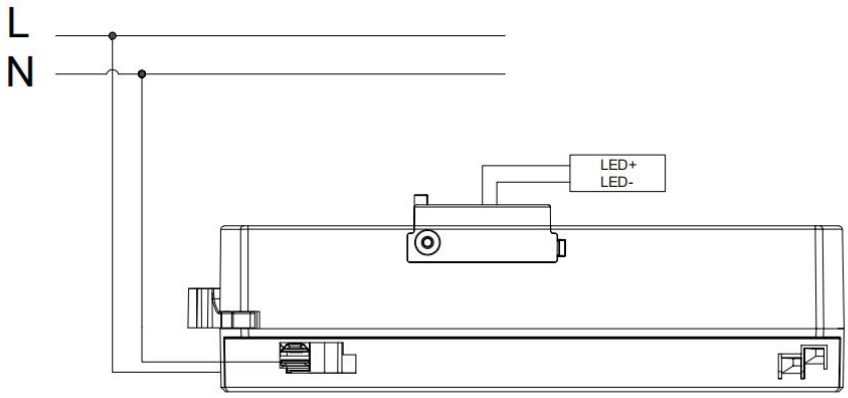
- Wiring: The mains conductor within the luminaire must be kept short
- Polarity: Please ensure the correct polarity of the leads.
  Reversed polarity can destroy the modules.
- Secondary Load: The sum of forward voltages of LED loads is within the tolerances which are mentioned in the Electrical Characteristics on the data sheet.
- Parallel Wiring: Parallel connection of LED loads is not allowed.

Press down the "Push Button" Wire Preparation and remove the cable from front.

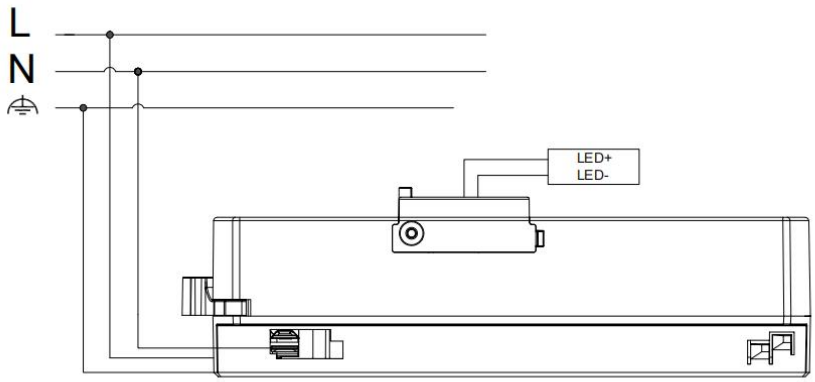


Wiring Diagram

SC25W300-650CG-2X
SC42W700-1000CG-2X



SC25W300-650CG-3X
SC42W700-1000CG-3X



Number of drivers per cut-out type

Type	B10A	B13A	B16A	B20A	B25A	C10A	C13A	C16A	C20A	C25A	D10A	D13A	D16A	D20A	D25A
SC25W300-650CG-2X SC25W300-650CG-3X	20	26	32	40	50	32	42	51	64	80	51	67	82	102	128
SC42W700-1000CG-2X SC42W700-1000CG-3X	15	20	24	30	38	24	31	38	48	60	38	50	61	77	96

Packaging unit

Model	Packaging Carton	Packaging Pallet	CartonL*W*H(mm)	Net weight/ Pcs (g)	Net weight/ Carton(kg)	Gross weight/Carton(kg)
SC25W300-650CG-2X SC25W300-650CG-3X SC42W700-1000CG-2X SC42W700-1000CG-3X	50		457*250*220	109	5.45	6.15

Revision history

DATE	REV	REMARK
2026-8-18	V1.0	Initial release