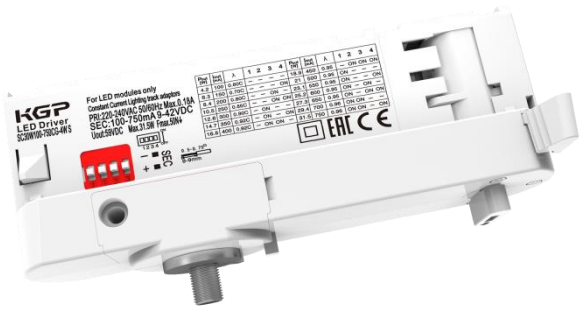
Track Adapters ON/OFF

SC30W100-750CG-4X S



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: 0/50/60 Hz
- Class II
- Power factor ≥0,95 (at full load)
- Low ripple ±5%
- Low THD ≤15% (at full load)
- SELV
- 50.000 Hours lifetime (At Tc Max.)
- 5 Years guarantee

Product benefit

- Compact shape
- Flexible configuration with DipSwitch
- Wide voltage range (9-42V for 100-750mA)

- Energy saving, High Efficiency

Application

- Shops
- Home living room/ Dining room
- Residential
- Office/Co working space
- Art museum / Exhibition space
- Track lights
- Emergency lighting systems scc.to EN 50172



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 (at full load)	Rippel 100Hz (%)
SC30W100-750CG-4W S SC30W100-750CG-4B S SC30W100-750CG-4G S	0.9-4.2W	220-240VAC	0.04A	10A/50μS	198-280VDC	9-42V	100mA	80.0%	0.60	±5%
	1.35-6.3W		0.05A				150mA	84.0%	0.70	
	1.8-8.4W		0.06A				200mA	86.0%	0.80	
	2.25-10.5W		0.07A				250mA	87.0%	0.85	
	2.7-12.6W		0.08A				300mA	88.0%	0.90	
	3.15-14.7W		0.09A				350mA	88.5%	0.92	
	3.6-16.8W		0.10A				400mA	88.5%	0.92	
	4.05-18.9W		0.12A				450mA	89.0%	0.95	
	4.5--21W		0.13A	15A/50μS			500mA	89.5%	0.95	
	4.95-23.1W		0.14A				550mA	89.5%	0.95	
	5.4-25.2W		0.15A				600mA	90.0%	0.95	
	5.85-27.3W		0.16A				650mA	90.0%	0.95	
	6.3-29.4W		0.17A				700mA	90.5%	0.96	
	6.75-31.5W		0.18A				750mA	90.5%	0.96	

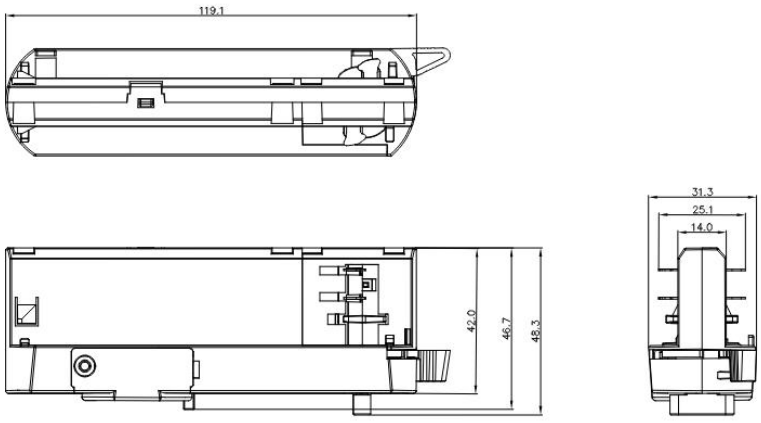
Opertational temperatures and humidity

Ambient temperature range	-20 ... +35℃
Operation humidity range	10 ... 95%
Storage temperature range	-25 ... +85℃
Storage humidity range	5 ... 95%
Maximum temperature at tc point	70℃

Expected lifetime

Expected lifetime at measured temp. at tc point	Tc=70℃	50000h

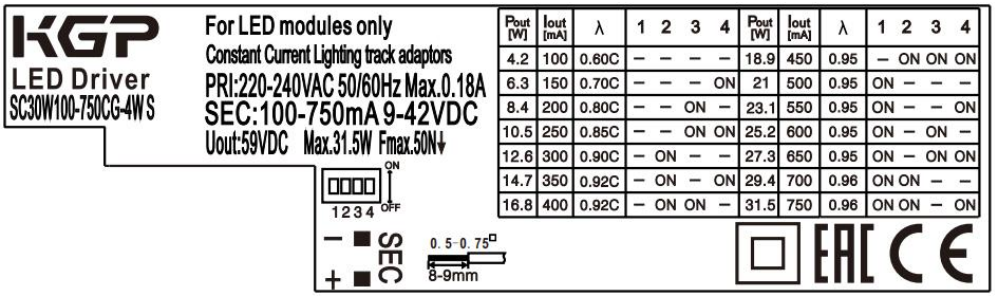
Dimensions: 119.1*31.3*48.3mm(L*W*H)



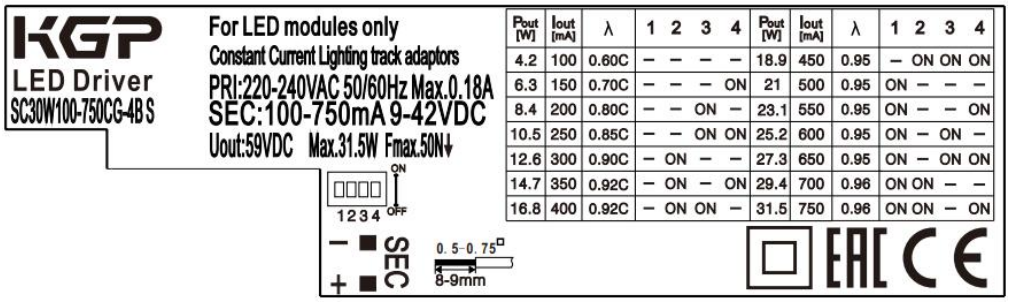
Wiring And Connections

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



Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
4.2	100	0.60C	–	–	–	–	18.9	450	0.95	–	ON	ON	ON
6.3	150	0.70C	–	–	–	ON	21	500	0.95	ON	–	–	–
8.4	200	0.80C	–	–	ON	–	23.1	550	0.95	ON	–	–	ON
10.5	250	0.85C	–	–	ON	ON	25.2	600	0.95	ON	–	ON	–
12.6	300	0.90C	–	ON	–	–	27.3	650	0.95	ON	–	ON	ON
14.7	350	0.92C	–	ON	–	ON	29.4	700	0.96	ON	ON	–	–
16.8	400	0.92C	–	ON	ON	–	31.5	750	0.96	ON	ON	–	ON



Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
4.2	100	0.60C	–	–	–	–	18.9	450	0.95	–	ON	ON	ON
6.3	150	0.70C	–	–	–	ON	21	500	0.95	ON	–	–	–
8.4	200	0.80C	–	–	ON	–	23.1	550	0.95	ON	–	–	ON
10.5	250	0.85C	–	–	ON	ON	25.2	600	0.95	ON	–	ON	–
12.6	300	0.90C	–	ON	–	–	27.3	650	0.95	ON	–	ON	ON
14.7	350	0.92C	–	ON	–	ON	29.4	700	0.96	ON	ON	–	–
16.8	400	0.92C	–	ON	ON	–	31.5	750	0.96	ON	ON	–	ON

Dip Switch seetings

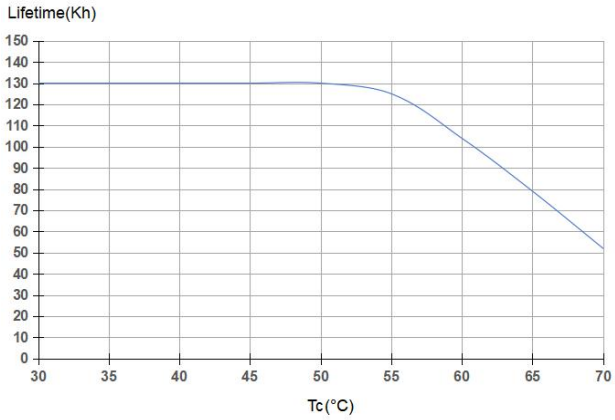
SC30W100-750CG-4X S

PIN 1	PIN 2	PIN 3	PIN 4	I rated (mA)	P rated (W)	U rated (V)	Factory settings (mA)
OFF	OFF	OFF	OFF	100mA	4.2	10-42V	750mA
OFF	OFF	OFF	ON	150mA	6.3		
OFF	OFF	ON	OFF	200mA	8.4		
OFF	OFF	ON	ON	250mA	10.5		
OFF	ON	OFF	OFF	300mA	12.6		
OFF	ON	OFF	ON	350mA	14.7		
OFF	ON	ON	OFF	400mA	16.8		
OFF	ON	ON	ON	450mA	18.9		
ON	OFF	OFF	OFF	500mA	21		
ON	OFF	OFF	ON	550mA	23.1		
ON	OFF	ON	OFF	600mA	25.2		
ON	OFF	ON	ON	650mA	27.3		
ON	ON	OFF	OFF	700mA	29.4		
ON	ON	OFF	ON	750mA	31.5		

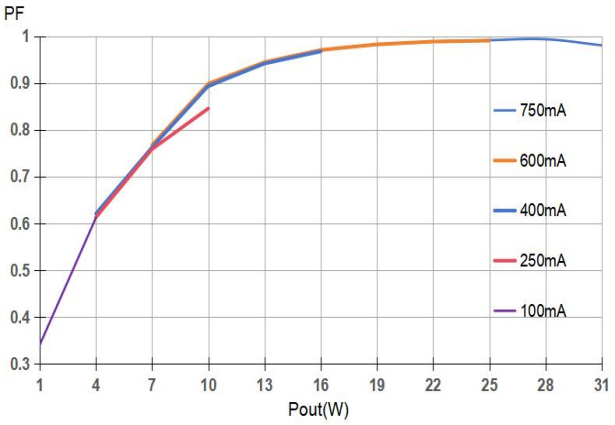
Graphs

SC30W100-750CG-4X S

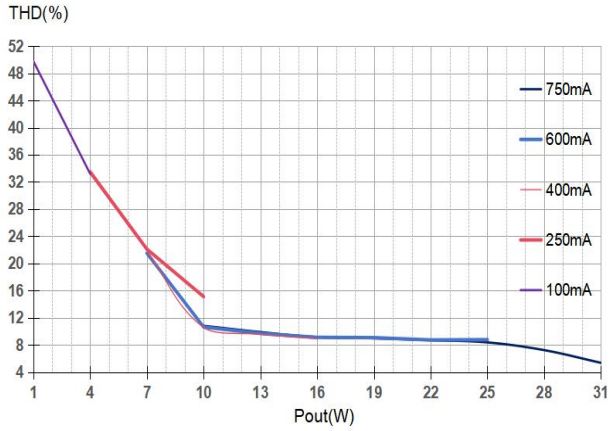
Lifetime vs. Case Temperature



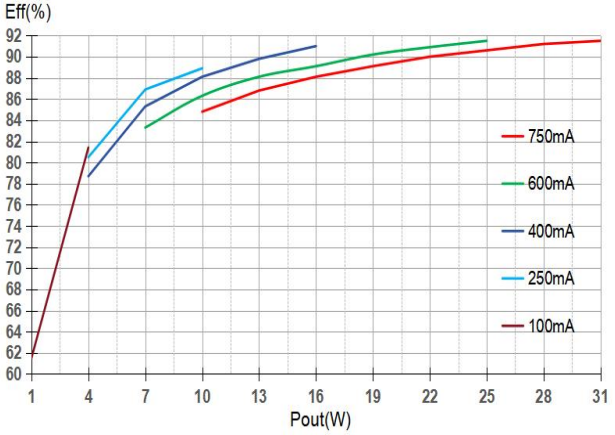
PF vs.Load



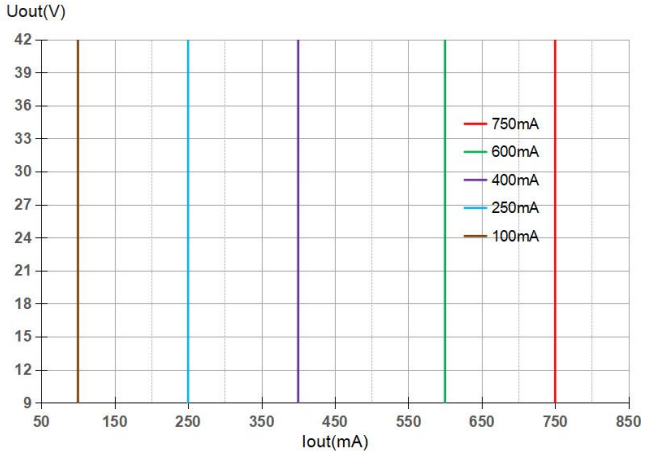
THD vs.Load



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 1kV
- 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
- Please check before switch-on mains power supply that the selected LED load is
  suitable (see Electrical Characteristics on data sheet).
- 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):230V
- 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

Serial Number	Brand	Track Model	System
1	Global	XTS 4100-4400 &XTSC 6100-6400	3P
2	A.A.G STUCCHI	9000A-2-ST	3P
3	Eutrac	25-106	3P
4	PowerGEAR	PRO-0410 & PRO-0610	3P
5	UNIPRO	TC312W	3P

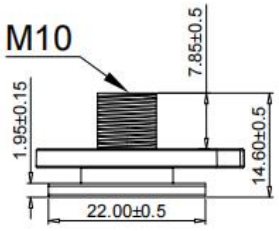
Remark:

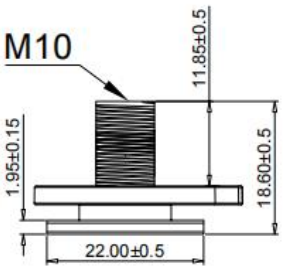
The model name is XTS 4100-4400 &XTSC 6100-6400 tracks, and its brand is Global.
The model name used is the 9000A-2-ST track, and its brand is A.A.G STUCCHI.
The model name is 25-106 tracks, and its brand is Eutrac.
The model name is PRO-0410 & PRO-0610 tracks, and its brand is PowerGEAR.
The model name is TC312W tracks, and its brand is UNIPRO.
If other brands are suitable, please communicate and consult first.

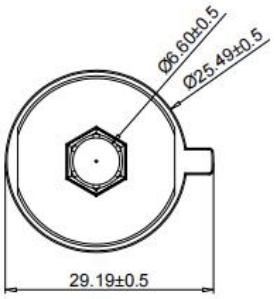
Nipples

- 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

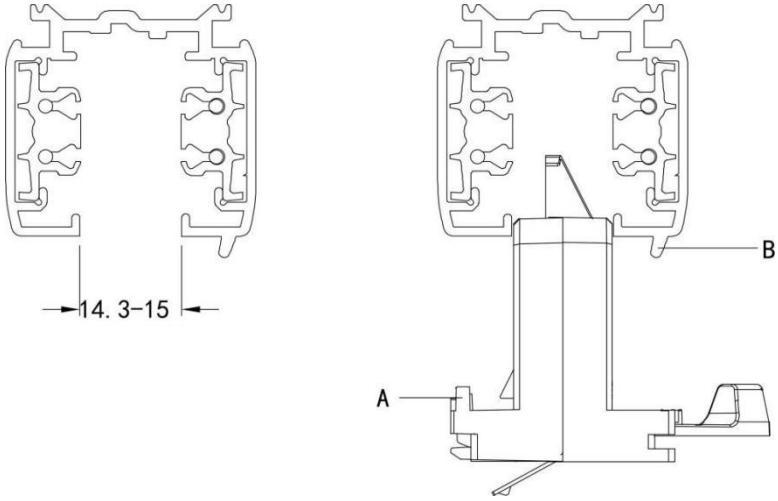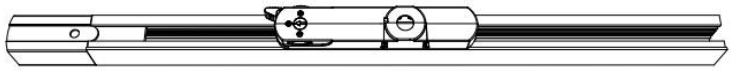








Phase track light rail specification:



Lighting track adapter and rail system installation diagram:



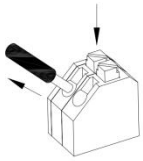


The adaptor shall be given that the use is limited to the track system specified.

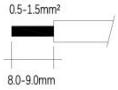
Electrical installation

- Connection terminals: Push-in terminals for rigid or flexible conductors with a section of
  Built-in:0,5-1,5mm² 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.

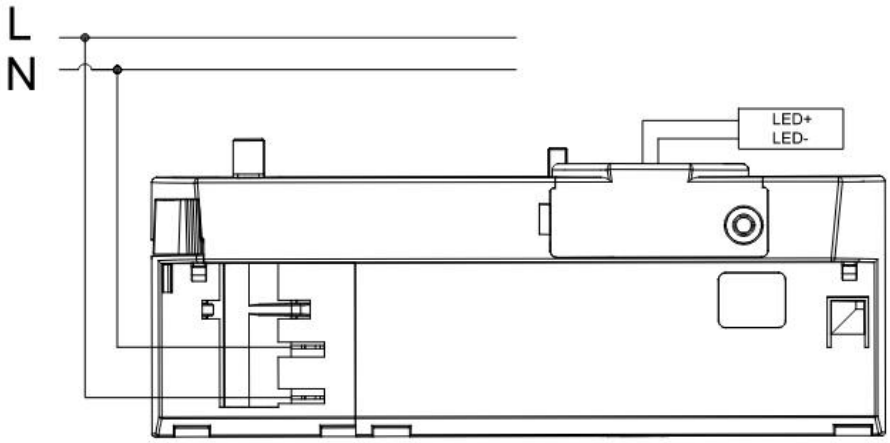
Press down the "Push Button"
and remove the cable from front.



Wire Preparation



Wiring Diagram:



Number of drivers per cut-out type

Type	B10A	B13A	B16A	B20A	B25A	C10A	C13A	C16A	C20A	C25A	D10A	D13A	D16A	D20A	D25A
SC30W100-750CG-4X S	42	56	68	84	105	44	57	71	88	111	44	57	71	88	111

Packaging unit

Model	Packaging Carton	Packaging Pallet	CartonL*W*H (mm)	Net weight/ Pcs (g)	Net weight/ Carton (kg)	Gross weight/Carton (kg)
SC30W100-750CG-4X S	60	36	420*280*210	90	5.4	6.1

Revision history

DATE	REV	REMARK
2025.12.16	V1.0	Initial release
2026.8.13	V1.1	Add curve diagrams, label diagrams, and wiring diagrams