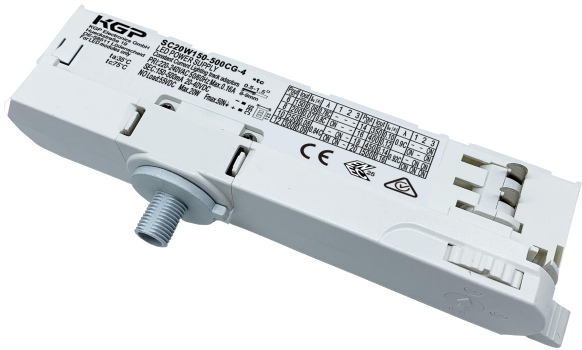




Constant Current Driver

Model: SC20W150-500CG-4W
SC20W150-500CG-4B
SC20W150-500CG-4G



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
SC20W150-500CG-4W SC20W150-500CG-4B SC20W150-500CG-4G	150mA	0.06A	12W	3-6W	0.8	80%	20-40V	≤55V
	200mA	0.07A	14W	4-8W	0.88			
	250mA	0.08A	15W	5-10W	0.9	83%		
	300mA	0.09A	19W	6-12W				
	350mA	0.10A	22W	7-14W	0.92	85%		
	400mA	0.12A	24W	8-16W				
	450mA	0.14A	26W	9-18W				
	500mA	0.16A	27W	10-20W				

* Test result @230V, 50Hz, Full Load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	N/A
	Dimming Range	N/A
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	50/60Hz
	Input Current	≤0.16A
	Input Power	≤27W
	Power Factor	≥0.92
	THD	≤20%
	No-load Power Consumption	≤0.5W
Output	Output Voltage	20-40V
	Output Current:	150/200/250/300/350/400/450/500MA
	No Load Voltage	55VDC Max
	Max. Output Power:	20W
	Efficiency	≥86%
	LF Current Ripple (< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)

	Current Accuracy	150/200/250/300mA@ $\pm 7\%$ 350/400/450/500MA@ $\pm 5\%$
	Started Delay Time	$\leq 0.5S$
	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	< 250 μ A, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20....+35 $^{\circ}C$
	Ts/Storage Temperature	-40....+85 $^{\circ}C$
	Tc/Enclosure Temperature	75 $^{\circ}C$
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
Construction	Installation	Independent
	PRI Wire preparation	0.75-1.5 $\square$
	SEC Wire preparation	0.5-1.5 $\square$
	Dimension	128 x 30.8x 43mm (L*W*H)
	Certification	complied to CE
Standards	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017 ,EN62493:2015,AS/NZSIEC61347.2.13:2013, AS/NZS 61347.1:2016
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014,E N61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
	RoHS	complied to 2011/65/EU
Others	Life Time	50000h @35 $^{\circ}C$ (Ta) / 75 $^{\circ}C$ (Tc)
	Warranty	5years , F.R. < 10000ppm
Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25 $^{\circ}C$ 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	Dial 1	Dial 2	Dial 3
150mA	-	-	-
200mA	ON	-	-
250mA	-	ON	-
300mA	ON	ON	-
350mA	-	-	ON
400mA	ON	-	ON
450mA	-	ON	ON
500mA	ON	ON	ON

3. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		30	39	48	60	75	@230VAC	20	40µs
TYPE C		48	62	77	96	120			
TYPE D		77	100	123	154	192			

4. Label



SC20W150-500CG-4
LED POWER SUPPLY
Constant Current Lighting track adaptors
PRI:220-240VAC 50/60Hz Max.0.16A
SEC:150-500mA 20-40VDC
NO Load:55VDC Max.20W Fmax.50N

•tc
0.5-1.5
8-9mm
SEC
123

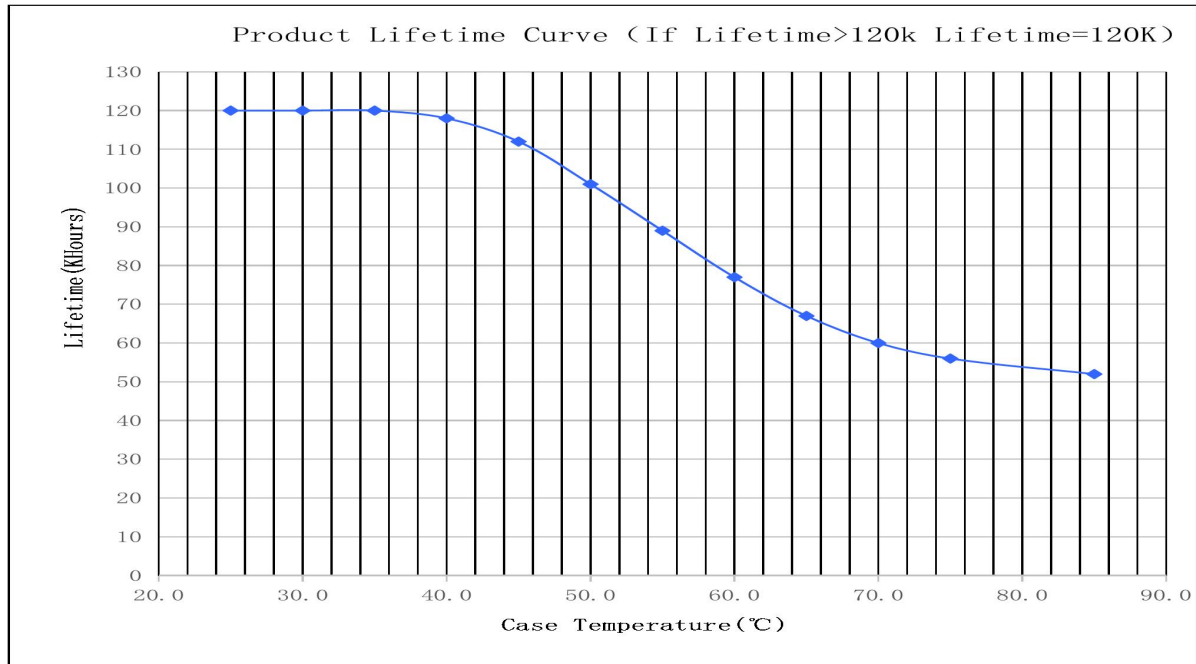
ta:35°C
tc:75°C

Pout (W)	Iout (mA)	In (A)	λ	1	2	3	Pout (W)	Iout (mA)	In (A)	λ	1	2	3
6	150	0.06	0.78C	-	-	-	14	350	0.10	0.9C	-	-	ON
8	200	0.07	0.8C	ON	-	-	16	400	0.12		ON	-	ON
10	250	0.08	0.84C	-	ON	-	18	450	0.14	0.92C	-	ON	ON
12	300	0.09	0.84C	ON	ON	-	20	500	0.16		ON	ON	ON

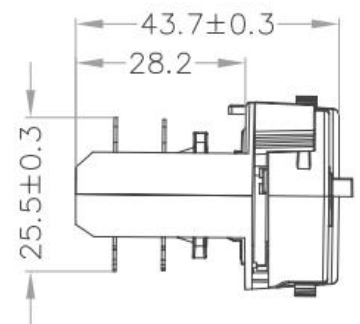
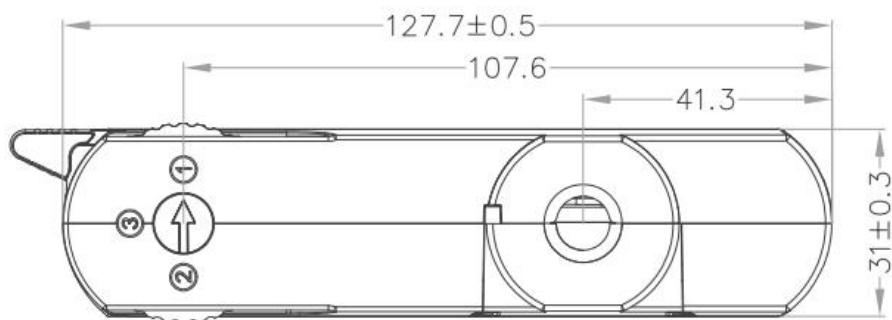
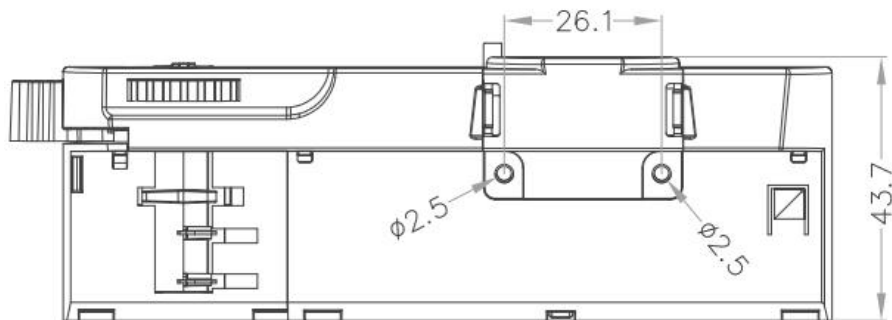




5. Lifetime curve



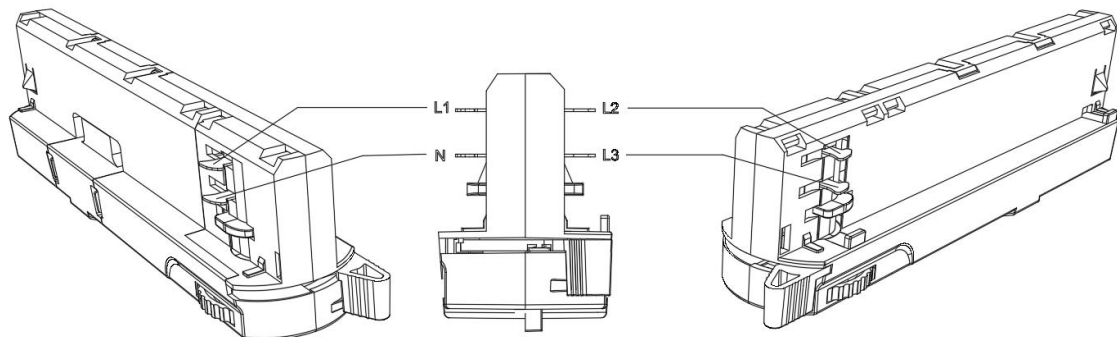
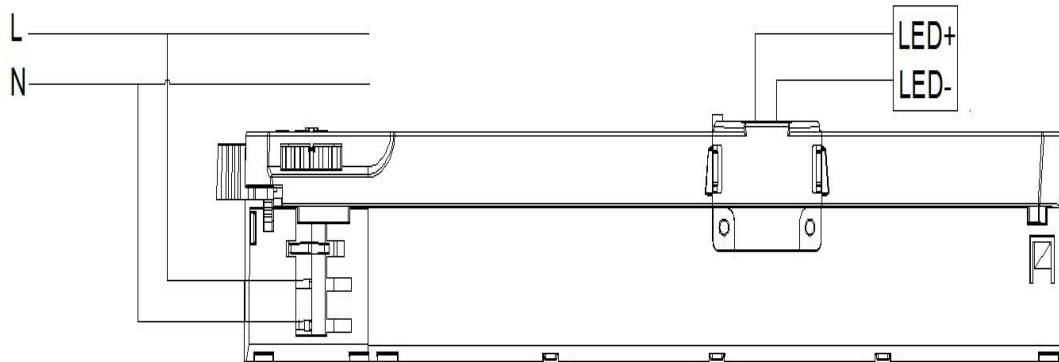
6. Dimension (Unit: mm)



7. Packing information

Packing way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Without white box and manual	525*285*390	170	0.078	13.26	13.85

8. Wiring Diagram

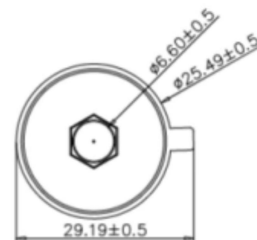
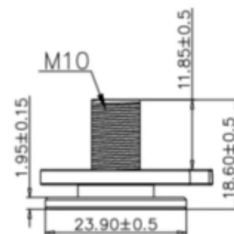
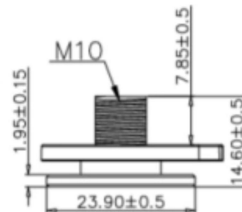


9. Lamp Screw Type

1. Optional threaded sleeve for luminaire mounting
2. Suitable for M10x1x8 threaded nut
3. Additional mounting equipment, e.g. M10x1x12
4. aluminium, black, white, grey
5. further on request

Ordering data

Type	Colour	Qty/ctn	Weight/pcs
M10x1x8	White	2500	9.31
	Black	2500	9.31
	Gray	2500	9.31
M10x1x12	White	2500	10.01
	Black	2500	10.01
	Gray	2500	10.01



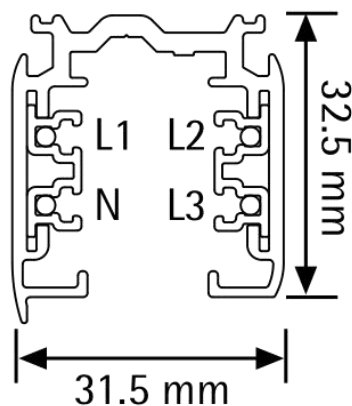
10. Suitable for following tracks

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	Unipro	T32B	3P
5	PowerGEAR	Pro-0431L	3P
6	ERCO	1079301000	3P

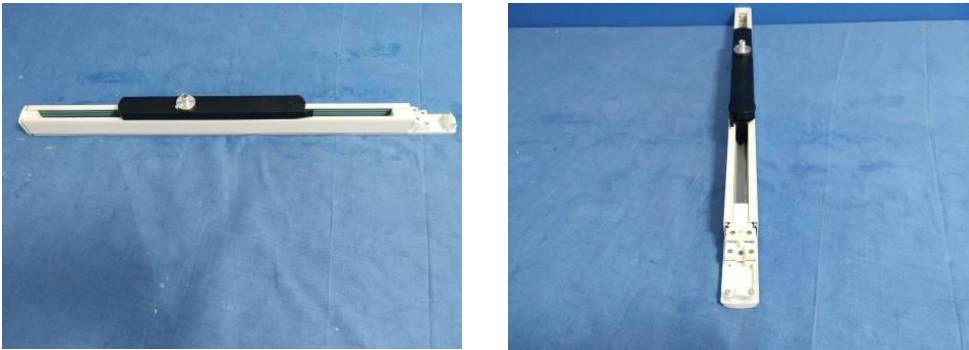
Remark:

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 T32B tracks, and its brand is Unipro.
5. The model name is Pro-0431L tracks, and its brand is PowerGEAR.
6. The model name is 1079301000 tracks, and its brand is ERCO.
7. If other brands are suitable, please communicate and consult first

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	REV	Modification details
2023-03-18	V1.0	Initial release.
2024-09-02	V1.1	Update nipple and compatible track