

Constant Current Driver

Model:SC84W300-1050CG-4

Model	Item Code	CH1 /CH2 Current		CH1/CH2 Voltage		Output Power Range	PF	Efficiency	No load Voltage
SC84W300-1050CG-4B SC84W300-1050CG-4G SC84W300-1050CG-4W	147411 147421 147441	300mA	300mA	10-42V	10-42V	6.00-25.20W	0.86	82%	55V
		350mA	350mA	10-42V	10-42V	7.00-29.40W	0.87	82%	55V
		400mA	400mA	10-42V	10-42V	8.00-33.60W	0.88	82%	55V
		450mA	450mA	10-42V	10-42V	9.00-37.80W	0.89	83%	55V
		500mA	500mA	10-42V	10-42V	10.00-42.00W	0.90	83%	55V
		550mA	550mA	10-42V	10-42V	11.00-46.20W	0.91	83%	55V
		600mA	600mA	10-42V	10-42V	12.00-50.40W	0.92	83%	55V
		650mA	650mA	10-42V	10-42V	13.00-54.60W	0.93	84%	55V
		700mA	700mA	10-42V	10-42V	14.00-58.80W	0.94	84%	55V
		750mA	750mA	10-42V	10-42V	15.00-63.00W	0.94	84%	55V
		800mA	800mA	10-42V	10-42V	16.00-68.20W	0.95	84%	55V
		850mA	850mA	10-40V	10-40V	17.00-68.00W	0.95	85%	55V
		900mA	900mA	10-40V	10-40V	18.00-72.00W	0.96	85%	55V
		950mA	950mA	10-40V	10-40V	19.00-76.00W	0.96	85%	55V
		1000mA	1000mA	10-40V	10-40V	20.00-80.00W	0.97	86%	55V
		1050mA	1050mA	10-40V	10-40V	21.00-84.00W	0.97	86%	55V

*** 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	176-264VAC or 176-280VDC

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	Frequency	50/60Hz
	Input Current	≤0.48A (230VAC，full load)
	Input Power	≤97.6W (230VAC，full load)
	Power Factor	≥0.97 (230VAC，full load)
	THD	≤20% (230VAC，full load)
	No-load Power Consumption	≤0.5W @230VAC
Output	Output Voltage Range	10-42VDC@300-800mA (CH1/CH2) 10-40VDC@850-1050mA (CH1/CH2)
	No Load Voltage	55VDC Max.
	Output Current (CH1/CH2)	300mA -1050mA (Max. output)
	Max. Output Power (CH1/CH2)	84W
	Efficiency	≥86% (230VAC，full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Started Delay Time	≤0.5S(230VAC，full load)
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….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.5-1.5□
	Dimension	312 x 31 x 45mm (L*W*H)
Standards	Certification	complied to CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,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
Remark:		

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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.

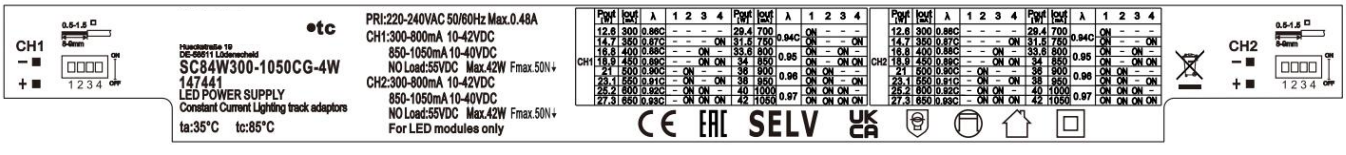
2. Output Current Setting

(CH1/CH2) 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

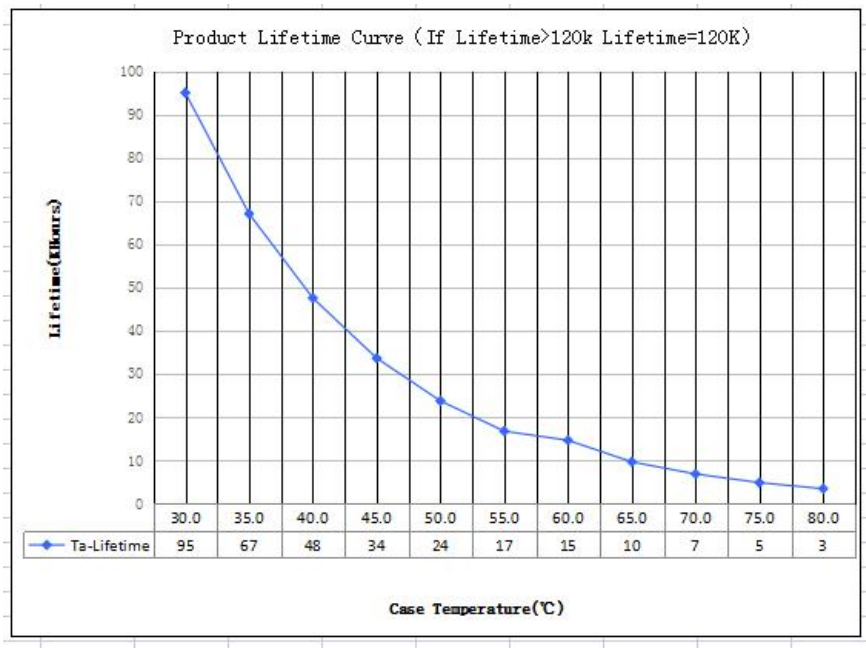
TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		33	43	53	67	83	@230VAC	18	2.8
TYPE C		53	69	85	107	133			
TYPE D		85	111	137	171	213			

4. Label

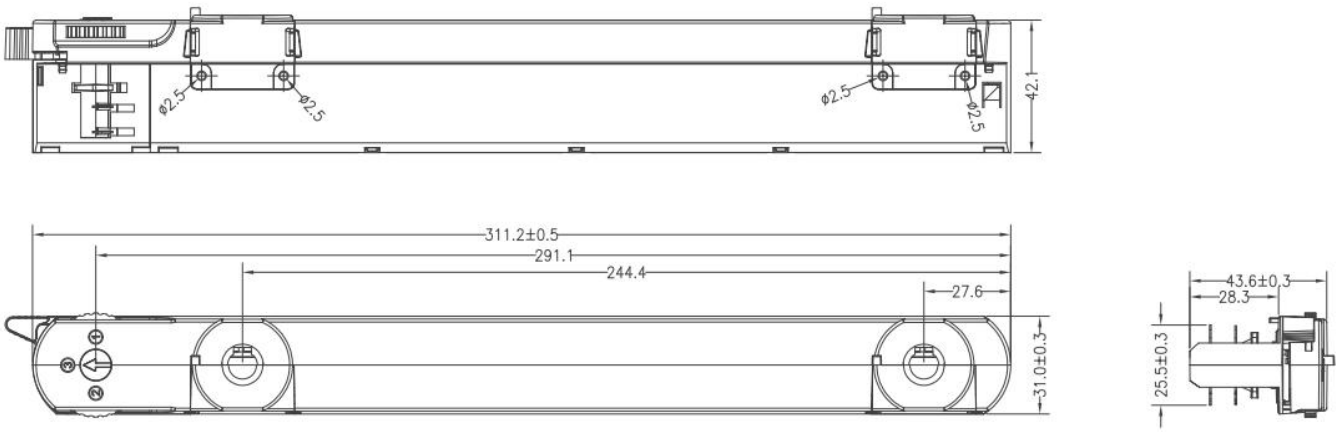


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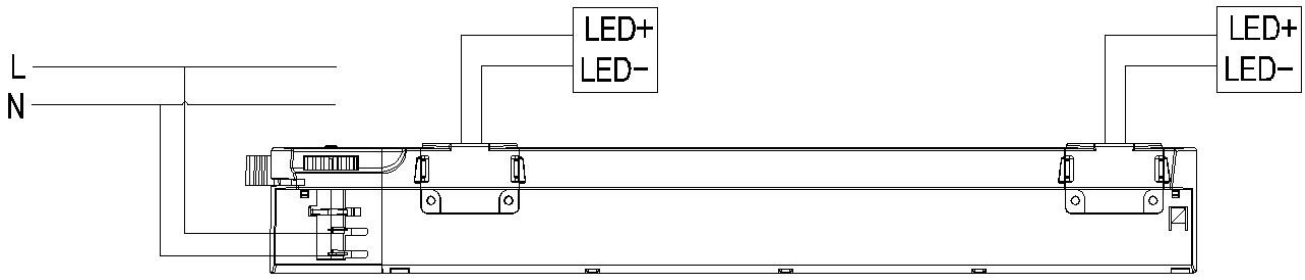
5. Lifetimecurve



6. Dimension



7. Wiring Diagram



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8. Packing information

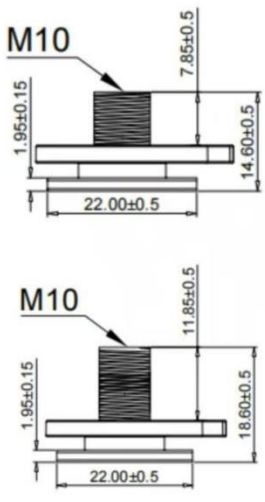
Packing way	Model	Article number	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	SC84W300-1050CG-4W	121601W	White	515*274*370	60	0.222	13.32	15.17
	SC82W300-1050CG-4B	121601B	Black					
	SC84W300-1050CG-4G	121601G	Grey					

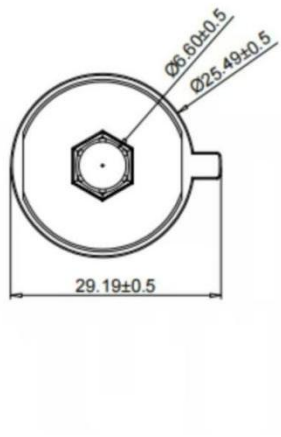
9. Ordering Data

- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment,e.g.M10x1x12
- aluminium, black, white,grey
- further on request

Model No	Item Code	Qty/ctn	Weight/pcs
SC84W300-1050CG-4W	147441	60	222
SC82W300-1050CG-4B	147411	60	222
SC84W300-1050CG-4G	147421	60	222
NIP M10x1x8 B G2	142261	1600	9.31
NIP M10x1x8 G G2	142271	1600	9.31
NIP M10x1x8 W G2	142281	1600	9.31
NIP M10x1x12 B G2	142211	1600	10.01
NIP M10x1x12 G G2	142221	1600	10.01
NIP M10x1x12 W G2	142231	1600	10.01







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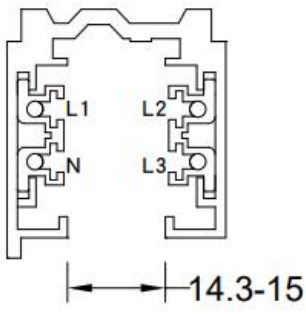
10. Suitable for following tracks

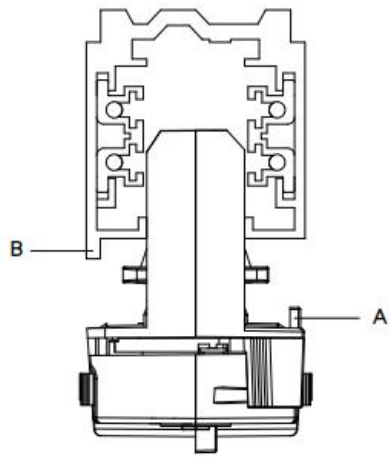
Serial number	Brand	Track model	System
1	Global	XTS11 & XTSC611	3P
2	A.A.G STUCCHI	9000A-2-ST	3P
3	Eutrac	25-106	3P
4	Unipro	T32B	3P
5	PowerGEAR	Pro-0431L	3P
6	ERCO	1079301000	3P

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. The model name is 783 tracks, and its brand is ERCO.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
2024-09-02	V1.1	Update nipple and compatible track
2024-12-31	V1.2	Update nipple
2025-08-02	V1.3	Insert item code ,ordering number and update label and picture

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