

**Constant Current Dimmable Driver**

**Model: SC42W300-1050CG-4 CASAMBI**



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (*Typical)	Output Voltage	No load Voltage
SC42W300-1050CG-4 CASAMBI	300mA	0.09A	15.4W	3.00-12.60W	0.86	85%	10-42V	59V
	350mA	0.10A	17.9W	3.50-14.70W	0.87	86%	10-42V	59V
	400mA	0.12A	20.5W	4.00-16.80W	0.88	87%	10-42V	59V
	450mA	0.13A	22.8W	4.50-18.90W	0.89	87%	10-42V	59V
	500mA	0.14A	25.3W	5.00-21.00W	0.9	87%	10-42V	59V
	550mA	0.15A	27.8W	5.50-23.10W	0.91	87%	10-42V	59V
	600mA	0.16A	30.4W	6.00-25.20W	0.92	88%	10-42V	59V
	650mA	0.17A	32.5W	6.50-27.30W	0.93	88%	10-42V	59V
	700mA	0.18A	35W	7.00-29.40W	0.94	88%	10-42V	59V
	750mA	0.19A	37.5W	7.50-31.50W	0.94	88%	10-42V	59V
	800mA	0.21A	40W	8.00-33.60W	0.95	88%	10-42V	59V
	850mA	0.22A	40W	8.50-34.00W	0.95	88%	10-42V	59V
	900mA	0.23A	42.4W	9.00-36.00W	0.96	88%	10-42V	59V
	950mA	0.23A	44.7W	9.50-38.00W	0.96	88%	10-42V	59V
	1000mA	0.24A	46.5W	10.00-40.00W	0.97	88%	10-42V	59V
1050mA	0.24A	48.8W	10.50-42.00W	0.97	88%	10-42V	59V	

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

### 1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Bluetooth
	Dimming range	1%-100%
	Output Features	Isolation
	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	≤0.24A(230VAC,full load)
	Input Power	≤48.8W(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 10-40VDC@850-1050mA
	No Load Voltage	59VDC Max.
	Output Current	300mA -1050mA (Max. output)
	Max. Output Power	42W
	Efficiency	≥88% (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	I/P to O/P <0.7mA
Environment	Ta/Operation Temperature	-20....+35°C
	Ts/Storage Temperature	-25....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%..... 90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-1.5 <sup>□</sup>
	SEC Wire preparation	0.5-1.5 <sup>□</sup>
	Dimension	250 x 31 x 45mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017
	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
<b>Remark:</b> 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	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>			
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

**KGP**  
KGP Electronics GmbH  
Hueckstraße 19  
DE-58511 Lüdenscheid

**LED Dimmable Driver**  
SC42W300-1050CG-4 CASAMBI  
Constant Current Lighting track adaptors

**CASAMBI**

CE, ENEC, SELV, RoHS, REACH, WEEE

PRI:220-240VAC 50/60Hz Max.0.24A  
SEC:300-800mA 10-42VDC  
850-1050mA 10-40VDC  
No Load:59VDC Max.42W Fmax.50N†  
For LED modules only

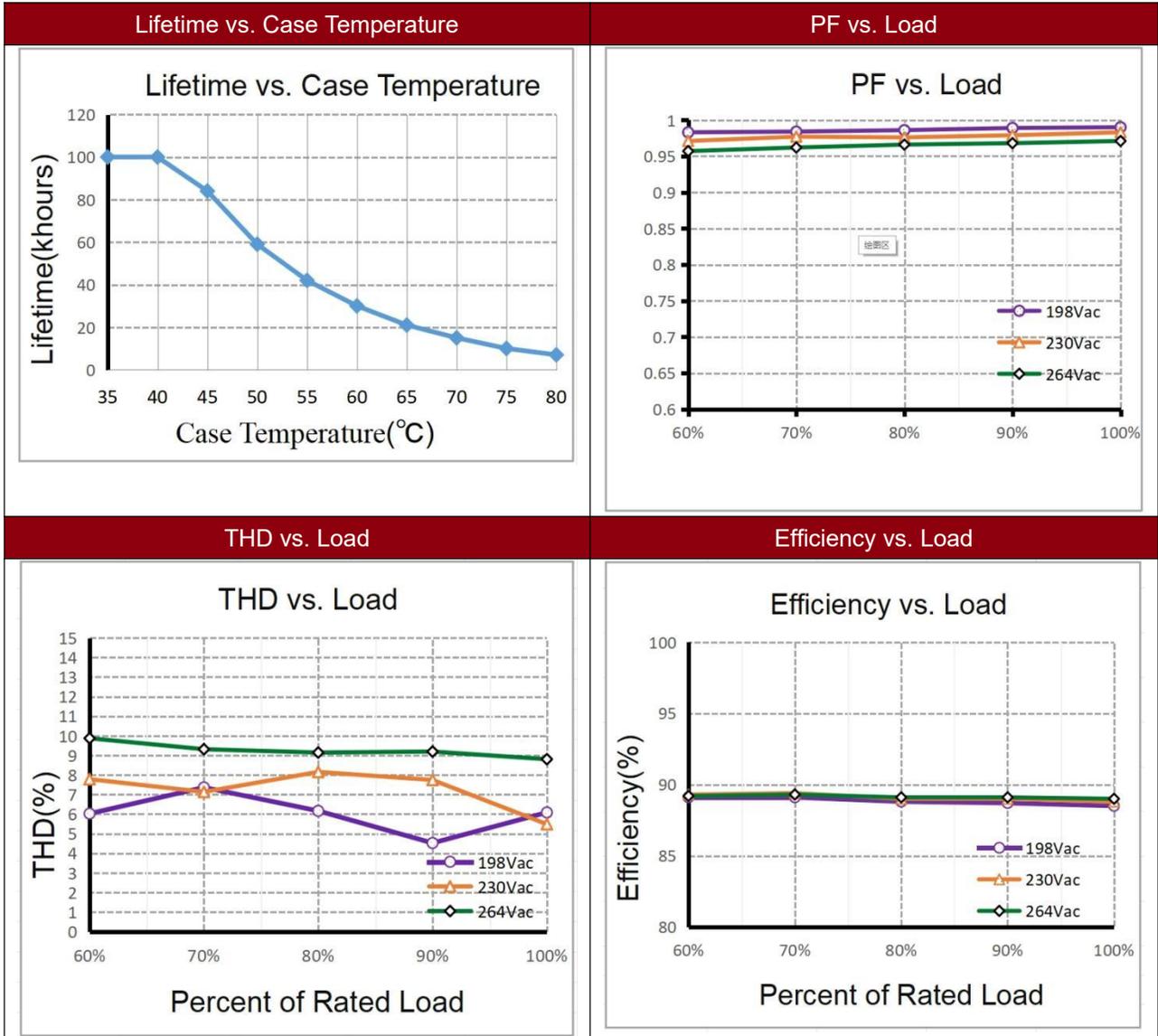
0.5-1.5  $\sigma$   
3-dimm  
Tc:85°C  
Ta:35°C

SEC  
+ -

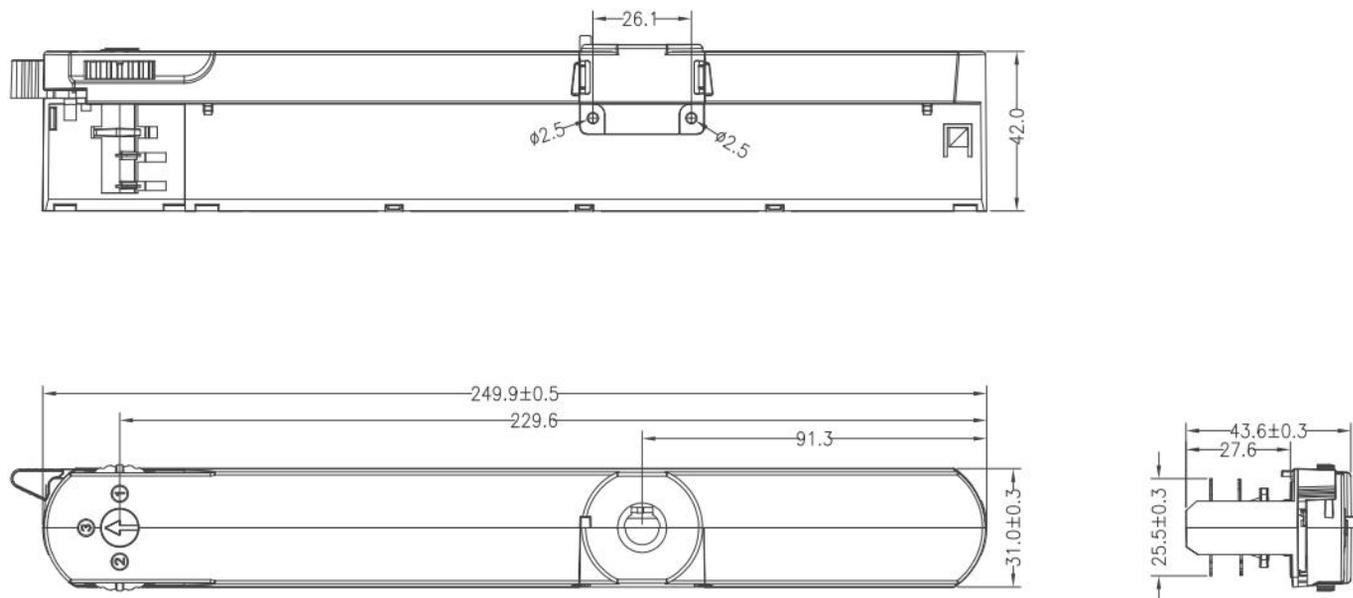
1 2 3 4 OFF

Pout [W]	Iout [mA]	Iin [A]	$\lambda$	1	2	3	4	Pout [W]	Iout [mA]	Iin [A]	$\lambda$	1	2	3	4
12.6	300	0.09	0.86	-	-	-	-	29.4	700	0.18	0.94	ON	-	-	-
14.7	350	0.10	0.87	-	-	-	ON	31.5	750	0.19	0.94	ON	-	-	ON
16.8	400	0.12	0.88	-	-	ON	-	33.6	800	0.21	0.95	ON	-	ON	-
18.9	450	0.13	0.89	-	-	ON	ON	34	850	0.22	0.95	ON	-	ON	ON
21	500	0.14	0.90	-	ON	-	-	36	900	0.23	0.96	ON	ON	-	-
23.1	550	0.15	0.91	-	ON	-	ON	38	950	0.24	0.96	ON	ON	-	ON
25.2	600	0.16	0.92	-	ON	ON	-	40	1000	0.24	0.97	ON	ON	ON	-
27.3	650	0.17	0.93	-	ON	ON	ON	42	1050	0.24	0.97	ON	ON	ON	ON

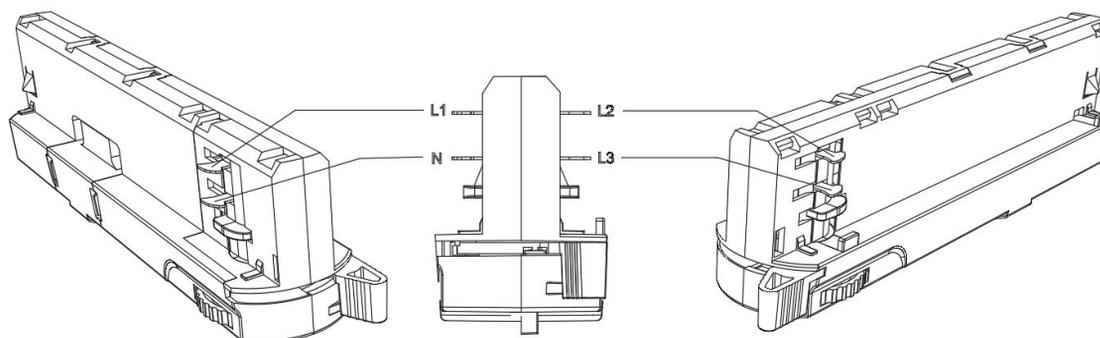
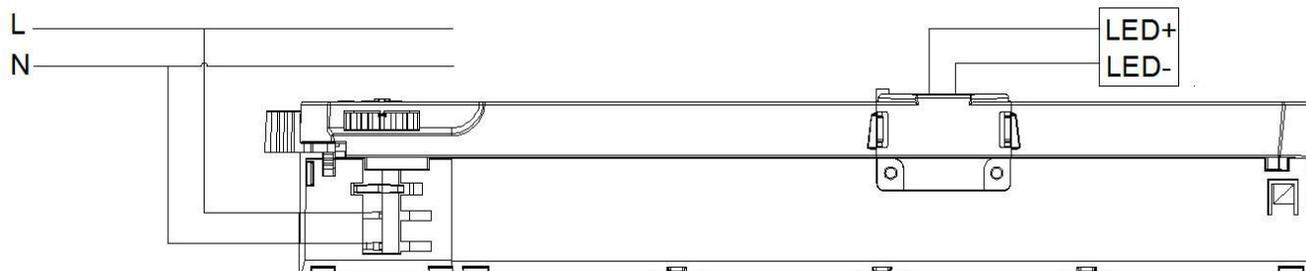
## 5. Electrical values



### 6. Dimension



### 7. Wiring Diagram



### 8. Packing information

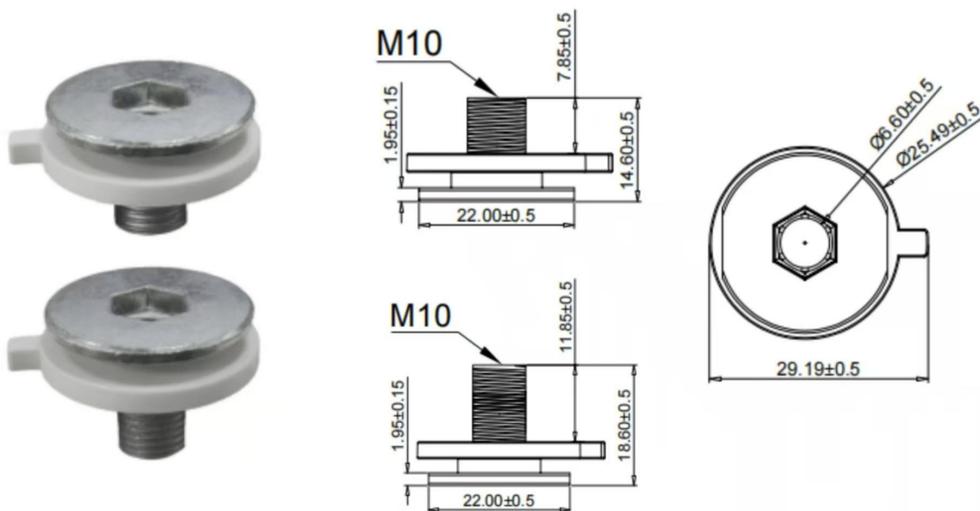
Packing way	Model	Article number	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	SC42W300-1050CG-4W CASAMBI	118901W	White	525*285*390	90	0.16	14.4	16.85
	SC42W300-1050CG-4B CASAMBI	118901B	Black					
	SC42W300-1050CG-4G CASAMBI	118901G	Grey					

### 9. Lamp Screw Type

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

### Ordering data

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



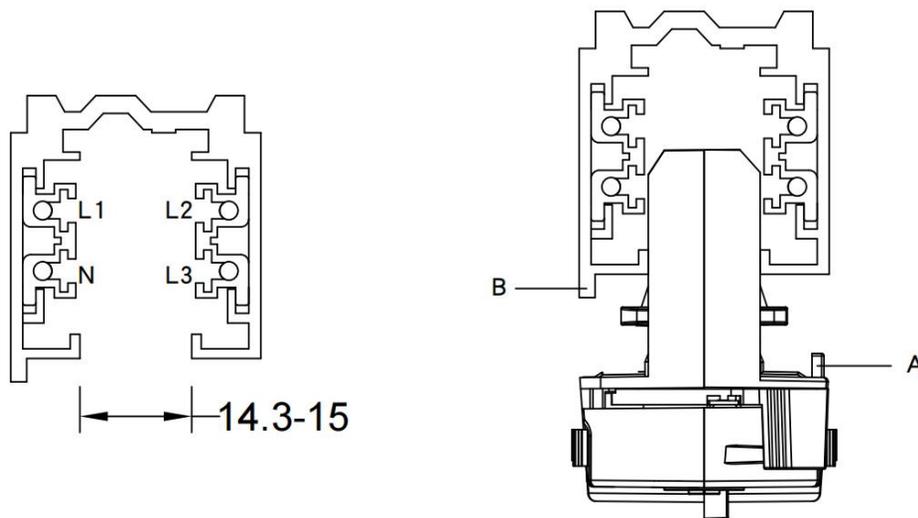
### 10. Suitable for following tracks

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

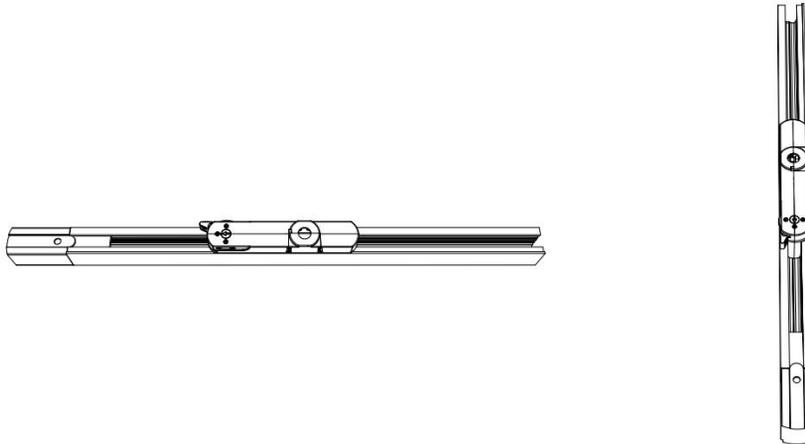
#### Remark:

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.)
- 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.

## 14. REVISION HISTORY

DATE	REV	Modification details
2022-05-22	V1.0	Initial release.
2025-01-03	V1.1	1. Change light load voltage 2. Updating the guide bar information