



Constant Current Driver

Model: SC30W150-700CG-4



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
SC30W150-700CG-4	150mA	0.10A	8.07W	1.50-6.30W	0.75	78%	10-42V	59V
	200mA	0.11A	10.5W	2.00-8.40W	0.8	80%	10-42V	59V
	250mA	0.12A	12.8W	2.50-10.50W	0.82	82%	10-42V	59V
	300mA	0.13A	15.3W	3.00-12.60W	0.83	82%	10-42V	59V
	350mA	0.14A	17.7W	3.50-14.70W	0.85	83%	10-42V	59V
	400mA	0.15A	20W	4.00-16.80W	0.91	84%	10-42V	59V
	450mA	0.16A	22.5W	4.50-18.90W	0.92	84%	10-42V	59V
	500mA	0.17A	25W	5.00-21.00W	0.94	84%	10-42V	59V
	550mA	0.18A	27.5W	5.50-23.10W	0.94	84%	10-42V	59V
	600mA	0.19A	29.6W	6.00-25.20W	0.95	85%	10-42V	59V
	650mA	0.20A	32.1W	6.50-27.30W	0.95	85%	10-42V	59V
	700mA	0.21A	34.4W	7.00-29.40W	0.95	86%	10-42V	59V

* 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
	Frequency	50/60Hz
	Input Current	≤0.21A (230VAC, full load)
	Input Power	≤34.4W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤20% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	No Load Voltage	59VDC Max.
	Output Current	150mA -700mA (Max. output)
	Max. Output Power	29.4W
	Efficiency	≥85.5% (230VAC, full load)

	Current Ripple	$\pm 5\%$ $(I_{max}-I_{min})/(I_{max}+I_{min})$
	Current Accuracy	$\pm 5\%$
	Started Delay Time	$\leq 0.5S$ (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	$> 100M \text{ ohm @ } 500VDC$
	Leakage current	$< 250\mu A$, 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	$85^{\circ}C$
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.3-0.75 [□]
	Dimension	268 x 13.9x 28mm (L*W*H)
Standards	Certification	complied to 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. $< 10000ppm$
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.		

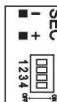
2. Output Current Setting

Output Current	1	2	3	4
150mA	-	-	-	-
200mA	-	-	-	ON
250mA	-	-	ON	-
300mA	-	-	ON	ON
350mA	-	ON	-	-
400mA	-	ON	-	ON
450mA	-	ON	ON	-
500mA	-	ON	ON	ON
550mA	ON	-	-	-
600mA	ON	-	-	ON
650mA	ON	-	ON	-
700mA	ON	-	ON	ON

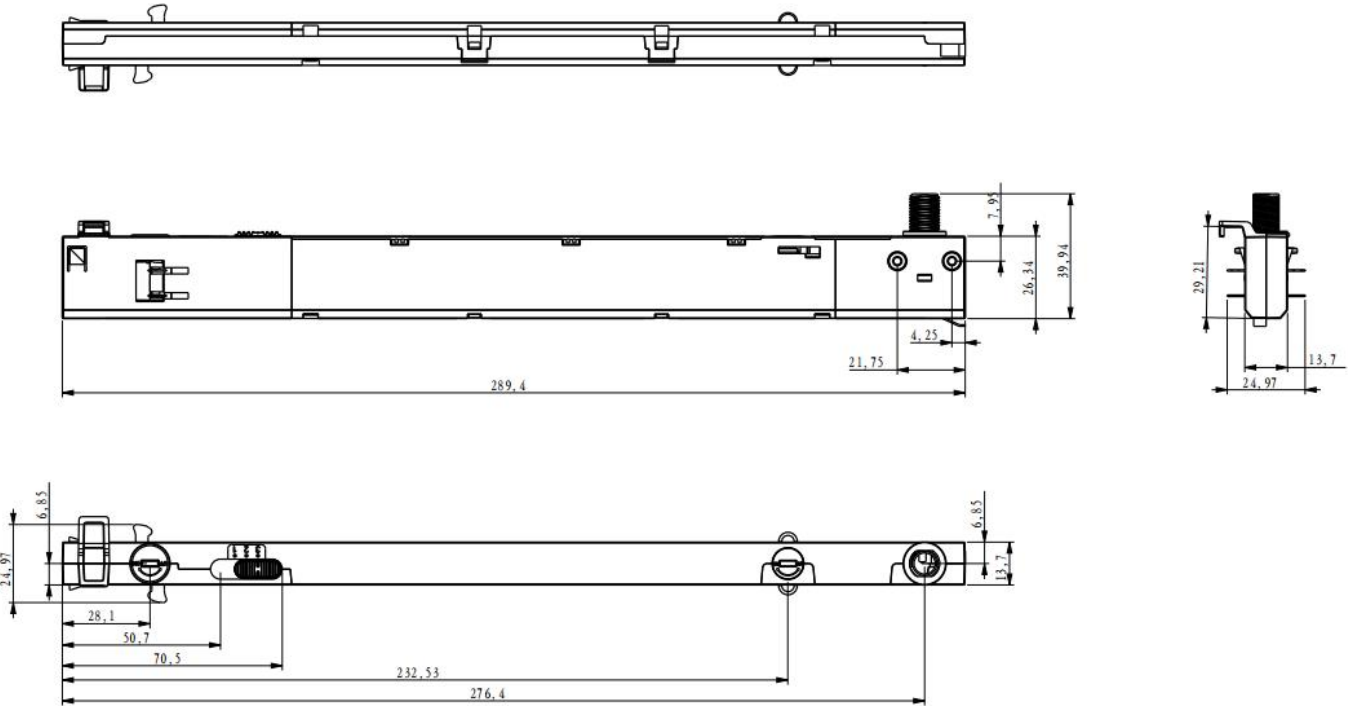
3. Connected quantities of different current Breaker

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			

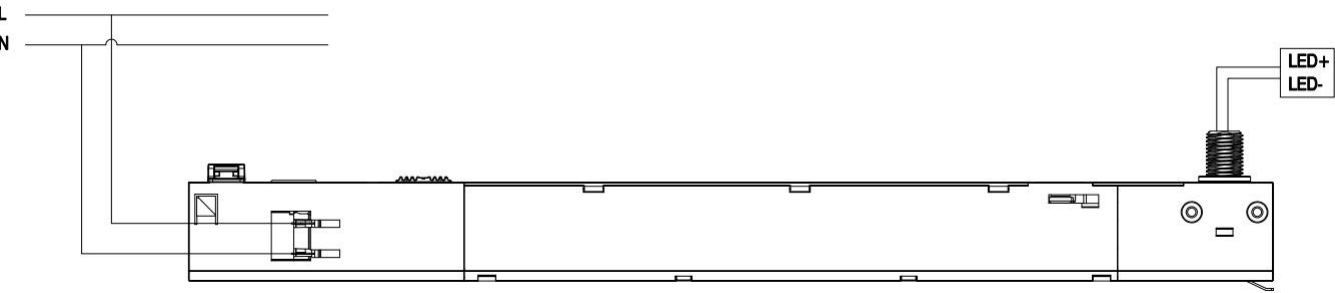
4. Label

 SEC 1 + 1234	 KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid LED Driver SC30W150-700CG-4	PRI:220-240VAC 50/60Hz Max.0.21A SEC:150-700mA 10-42VDC NO Load:59VDC Max.29.4W Fmax.50N+ ta: 35°C tc:85°C For LED modules only Constant Current Lighting track adaptors	• tc	<table><tr><th>Pos</th><th>U_{OUT}[V]</th><th>I_N[A]</th><th>λ</th><th>1</th><th>2</th><th>3</th><th>4</th></tr><tr><td>6.3</td><td>150</td><td>0.10</td><td>0.80C</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>8.4</td><td>200</td><td>0.11</td><td>0.84C</td><td>-</td><td>-</td><td>-</td><td>ON</td></tr><tr><td>10.5</td><td>250</td><td>0.12</td><td>0.88C</td><td>-</td><td>-</td><td>ON</td><td>-</td></tr><tr><td>12.6</td><td>300</td><td>0.13</td><td>0.90C</td><td>-</td><td>-</td><td>ON</td><td>ON</td></tr><tr><td>14.7</td><td>350</td><td>0.14</td><td>0.91C</td><td>-</td><td>ON</td><td>-</td><td>-</td></tr><tr><td>16.8</td><td>400</td><td>0.15</td><td>0.92C</td><td>-</td><td>ON</td><td>-</td><td>ON</td></tr></table>	Pos	U _{OUT} [V]	I _N [A]	λ	1	2	3	4	6.3	150	0.10	0.80C	-	-	-	-	8.4	200	0.11	0.84C	-	-	-	ON	10.5	250	0.12	0.88C	-	-	ON	-	12.6	300	0.13	0.90C	-	-	ON	ON	14.7	350	0.14	0.91C	-	ON	-	-	16.8	400	0.15	0.92C	-	ON	-	ON	<table><tr><th>Pos</th><th>U_{OUT}[V]</th><th>I_N[A]</th><th>λ</th><th>1</th><th>2</th><th>3</th><th>4</th></tr><tr><td>18.9</td><td>450</td><td>0.16</td><td>-</td><td>-</td><td>ON</td><td>ON</td><td>-</td></tr><tr><td>21</td><td>500</td><td>0.17</td><td>0.94C</td><td>-</td><td>ON</td><td>ON</td><td>ON</td></tr><tr><td>23.1</td><td>550</td><td>0.18</td><td>-</td><td>ON</td><td>-</td><td>-</td><td>-</td></tr><tr><td>25.2</td><td>600</td><td>0.19</td><td>-</td><td>ON</td><td>-</td><td>-</td><td>ON</td></tr><tr><td>27.3</td><td>650</td><td>0.20</td><td>0.95C</td><td>-</td><td>ON</td><td>-</td><td>ON</td></tr><tr><td>29.4</td><td>700</td><td>0.21</td><td>-</td><td>ON</td><td>-</td><td>ON</td><td>ON</td></tr></table>	Pos	U _{OUT} [V]	I _N [A]	λ	1	2	3	4	18.9	450	0.16	-	-	ON	ON	-	21	500	0.17	0.94C	-	ON	ON	ON	23.1	550	0.18	-	ON	-	-	-	25.2	600	0.19	-	ON	-	-	ON	27.3	650	0.20	0.95C	-	ON	-	ON	29.4	700	0.21	-	ON	-	ON	ON
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5. Dimension



6. Wiring Diagram



7. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
515*274*370	T.H.D	T.H.D	T.H.D	T.H.D

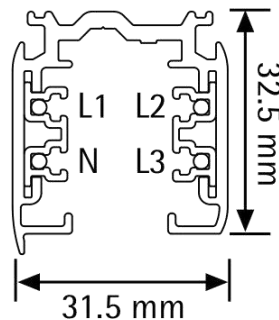
8. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTS 4 & XTSF 4	3P
2	Stucchi	9000XX Series	3P
3	Eutrac	2510x	3P

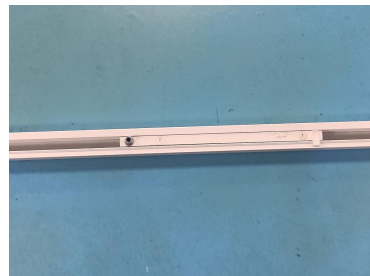
Remark:

1. The model name is XTS 4 and XTSF 4 tracks, and its brand is Global.
2. The model name used is the 9000XX track, and its brand is Stucchi. The "XX" in the model name represents: it represents a different color.
3. The model name is 2510x tracks, and its brand is Eutrac. The "x" in the model name represents: it represents a different color (x=1 white; x=2 black; x=3 silver, x=8 grey).

9. Phase track light rail specification:



10. Lighting track adapter and rail system installation diagram:



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

11. 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.)

12. REVISION HISTORY

DATE	VER	REMARK
2022-09-12	V1.0	Initial release.