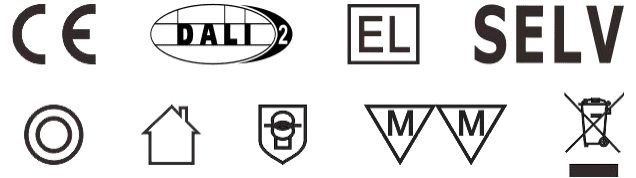


Constant Current Dimmable Driver

Model: T30C150-700D-D-6W



Model	Output Current (*Typical)	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
T30C150-700D-D-6W T30C150-700D-D-6B T30C150-700D-D-6G	150mA	0.10A	8.07W	1.50-6.30W	0.75	83%	10-42V	59V
	200mA	0.11A	10.5W	2.00-8.40W	0.8	85%	10-42V	59V
	250mA	0.12A	12.8W	2.50-10.50W	0.82	86%	10-42V	59V
	300mA	0.13A	15.3W	3.00-12.60W	0.83	88%	10-42V	59V
	350mA	0.14A	17.7W	3.50-14.70W	0.85	88%	10-42V	59V
	400mA	0.15A	20W	4.00-16.80W	0.91	89%	10-42V	59V
	450mA	0.16A	22.5W	4.50-18.90W	0.92	89%	10-42V	59V
	500mA	0.17A	25W	5.00-21.00W	0.94	89%	10-42V	59V
	550mA	0.18A	27.5W	5.50-23.10W	0.94	89%	10-42V	59V
	600mA	0.19A	29.6W	6.00-25.20W	0.95	89%	10-42V	59V
	650mA	0.20A	32.1W	6.50-27.30W	0.95	89%	10-42V	59V
700mA	0.21A	34.4W	7.00-29.40W	0.95	89%	10-42V	59V	

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	DALI-2 / PUSH Dimming
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 198-280VDC
	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	≤15% (230VAC, full load)
	Standby power(dim to off)	≤0.5W @230VAC (DIM to off)
Output	No Load Voltage	59VDC Max.
	Output Current	150mA -700mA
	Max. Output Power	29.4W
	Efficiency	≥89% (230VAC, full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5% (@300-700mA) ±8% (@150-250mA)
	Started Delay Time	Start-up time <0.5s @ power switch on without DALI control. Start-up time <1s @ DALI system on.
Control Method	Primary PUSH dimming	Primary PUSH dimming (Max. lead wire length: 25m,same port of DALI)
	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable DALI Part -251,-252 and -253
	Dimming range	DALI dimming: 0.1%-100%
	Current setting	dial switches
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℃
	Ts/Storage Temperature	-35....+75℃
	Tc/Enclosure Temperature	70℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.3-0.75 [□]
	Dimension	308*28*25.3mm (L*W*H)
Standards	Certification	complied to CE
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN 62493:2015 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1
	EMC Standards EMC	EN IEC 55015:2019 EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 EN 61547:2009
	Performance	EN62384:2020
	Surge	L-N/2KV



Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta
	Warranty	5years ,F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB , Interval≥15cm

Remark:

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
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 (A)	Time (us)
	current (A)	10	13	16	20			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²		
TYPE B		13	17	21	27	33	@230VAC	45
TYPE C		21	28	34	43	53		
TYPE D		34	44	55	68	85		



4. Label

□ DA
□ DA

KGP LED Dimmable Driver
T30C150-7000-D-6W

Constant Current Lighting track adaptors
For LED modules only
PRI:220-240VAC 50/60Hz Max.0.21A
SEC:150-700mA 10-42VDC
NO Load:59VDC Max.30W Fmax.50N

0.6-1.6
8mm

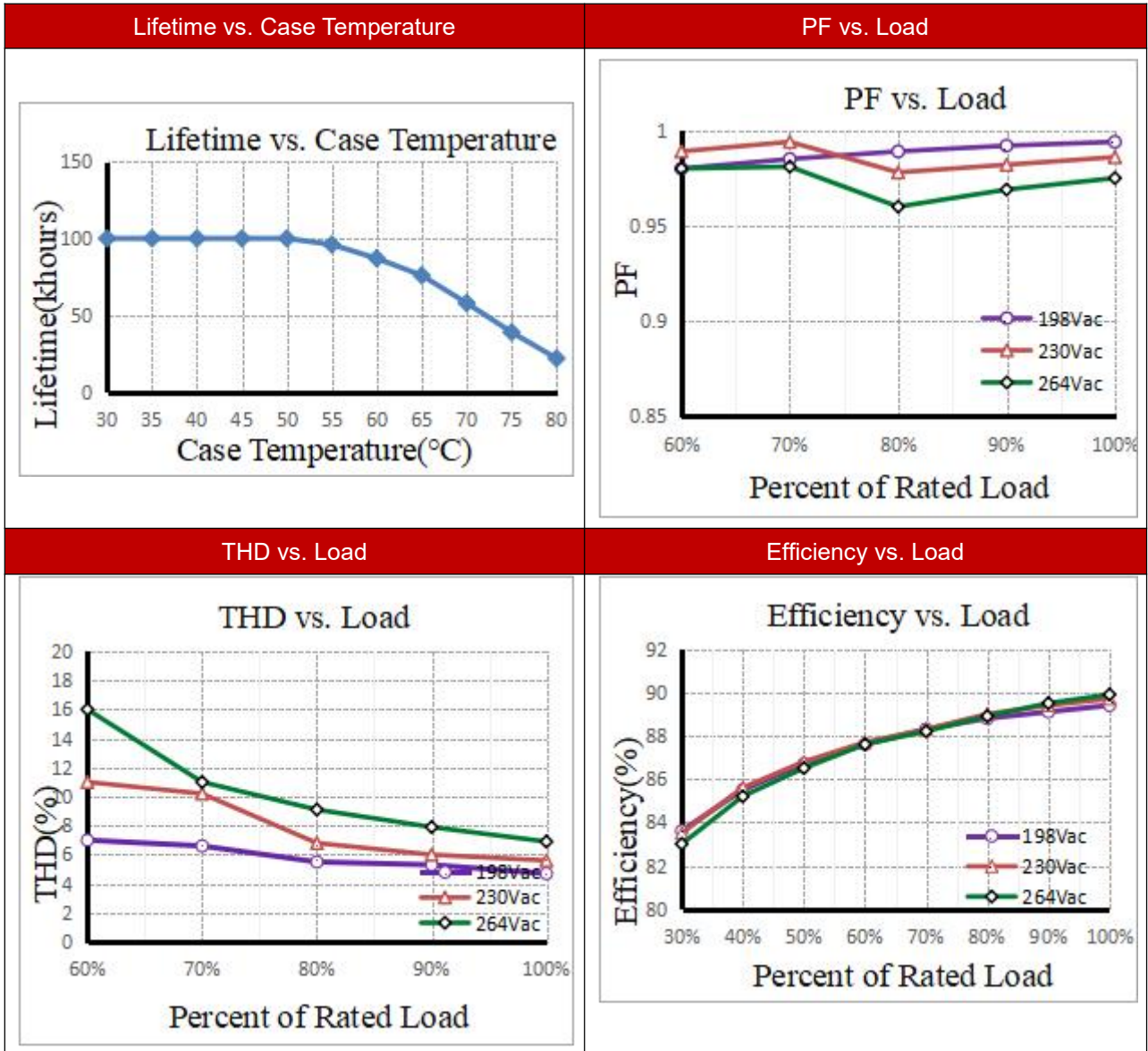
ta:35°C
to:70°C

ON
OFF

1 2 3 4

Pout (W)	Iout (A)	λ	1	2	3	4	Pout (W)	Iout (A)	λ	1	2	3	4
8.3	150	0.10	0.75C	-	-	-	18.9	450	0.16	0.82C	-	ON	ON
8.4	200	0.11	0.80C	ON	-	-	21	500	0.17	0.84C	ON	ON	ON
10.5	250	0.12	0.82C	-	ON	-	23.1	550	0.18	-	-	-	ON
12.6	300	0.13	0.83C	ON	ON	-	25.2	600	0.19	-	-	-	ON
14.7	350	0.14	0.85C	-	-	ON	27.3	650	0.20	0.86	-	-	ON
16.8	400	0.15	0.91C	ON	-	ON	29.4	700	0.21	-	ON	ON	ON

5. Electrical values



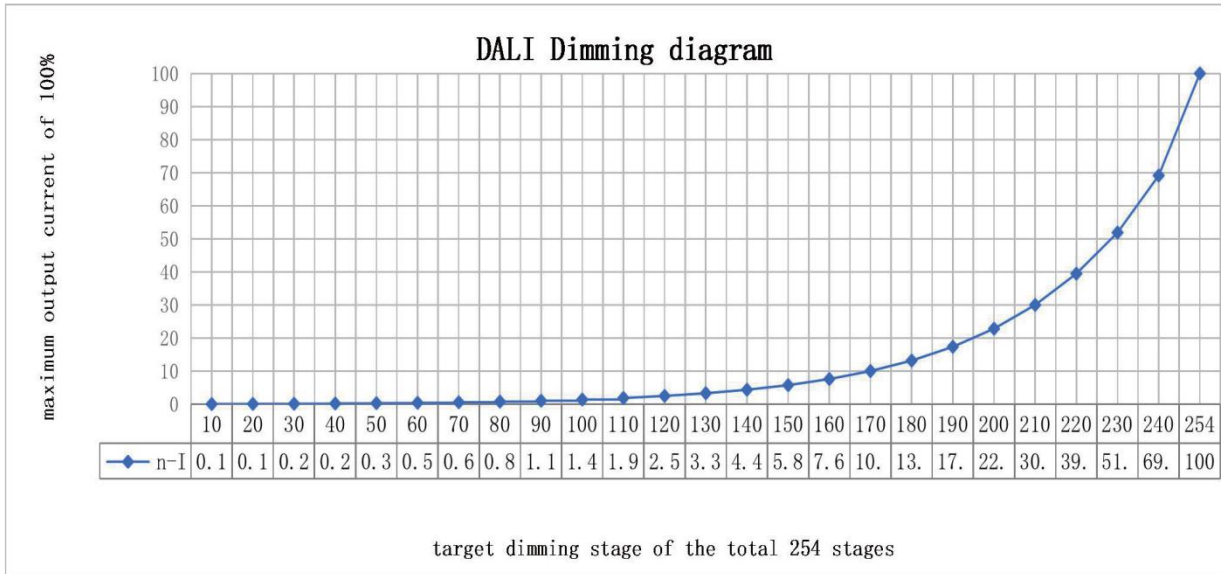
6. DALI dimming curve

formula for DALI dimming.

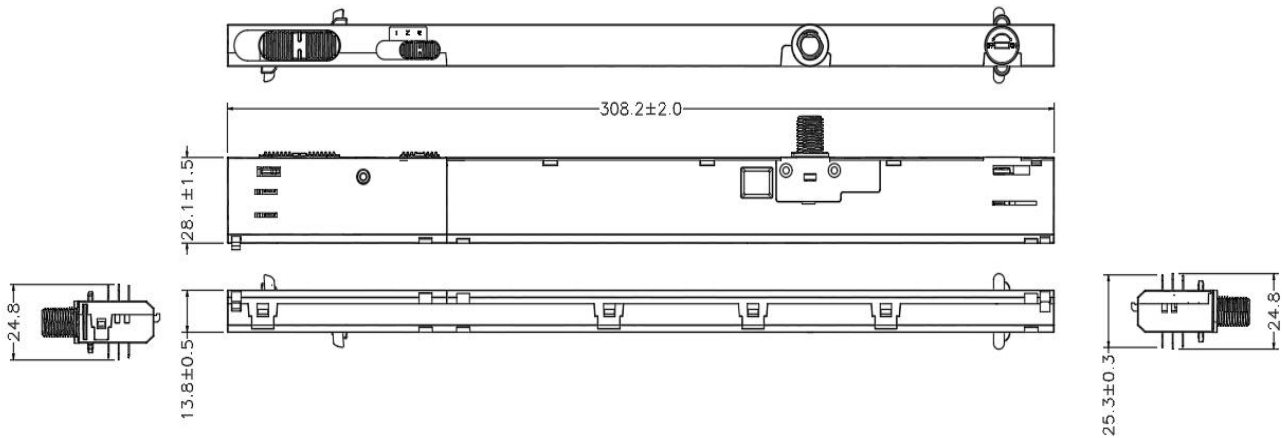
$$X(n)=10^{\{[(n-1)/(253/3)]-1\}}$$

Here, n means the target dimming stage of the total 254 stages.

X(n) means the percent of the maximum output current



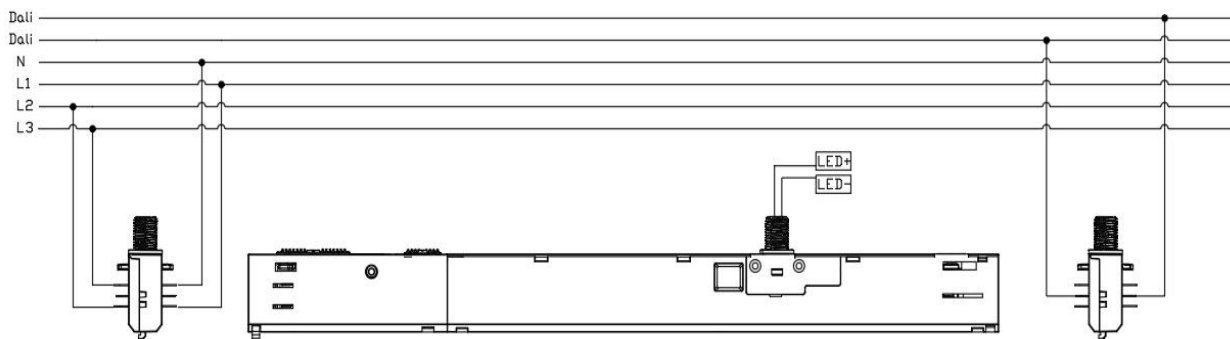
7. Dimensi



8. Packing information

Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	T30C150-700D-D-6W	White	L405*W340*H205	120	0.113	13.56	15.06
	T30C150-700D-D-6B	Black					
	T30C150-700D-D-6G	Grey					

9. Wiring Diagram



10. 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.

11. PUSH DIMMING (see wiring diagram)

11.1 On / off:

Short push (120ms-600ms) on the switch

Stepless dimming: long push (> 0.6sec) on the switch

11.2 Power-on memory function

When the LED driver is powered on, it will restore the memory before the LED driver is powered off. (brightness remembers the brightness after the last dimming is stable, and the bright ness during dimming is not memorized).



11.3 Light on/off

If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600mS.

11.4 PUSH Dimming

Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time. After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 3.8%-100%. The default is to dim when the power is first long-press. If the brightness of the power-on is the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

11.5 Forced synchronization

Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

16.6 PUSH Dimming rate

Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S, and it can also be changed by MAGIC or production software

12. Suitable for following tracks

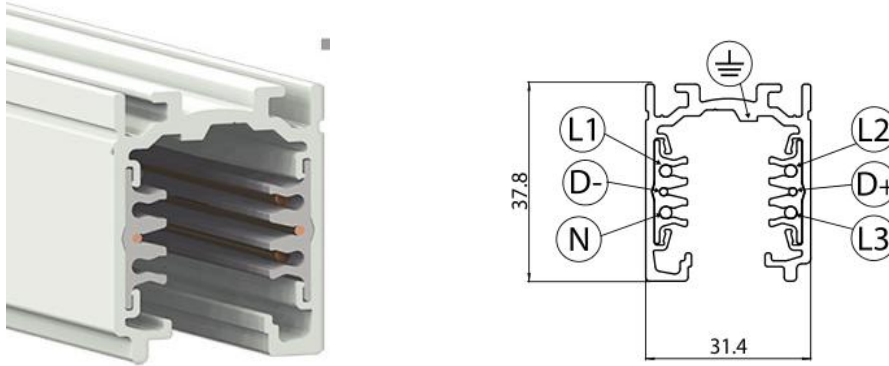
Serial number	Brand	Track model	System
1	Global	XTS 4 & XTSE 4	3P
2	Stucchi	9000XX Series	3P
3	Eutrac	2510x	3P

Remark:

1. The model name is XTS 4 and XTSE 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).



13. Phase track light rail specification:



14. Lighting track adapter and rail system installation diagram:



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

15. 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.)



16. REVISION HISTORY

DATE	REV	Modification details
2024-8-27	V1.0	Initial release.

