

CC7WXXX-XXXCG Triac



Constant Current & Dimmable Driver

Model: CC7WXXX-XXXCG Triac



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC7W100-180CG Triac	100mA	0.04A	5W	2.6-4W	0.92	74%	26-40V	55V
	120mA	0.04A	6.5W	3.12-4.8W	0.92	74%	26-40V	55V
	140mA	0.06A	8W	3.64-5.6W	0.92	77%	26-40V	55V
	180mA	0.06A	9.5W	4.68-7.2W	0.92	77%	26-40V	55V
CC7W180-350CG Triac	180mA	0.04A	5W	2.16-3.6W	0.92	74%	12-20V	35V
	200mA	0.04A	6.5W	2.4-4W	0.92	74%	12-20V	35V
	300mA	0.06A	8W	3.6-6W	0.92	77%	12-20V	35V
	350mA	0.06A	9.5W	4.2-7W	0.92	77%	12-20V	35V
CC7W350-500CG Triac	350mA	0.04A	5W	2.45-4.55W	0.92	72%	7-13V	25V
	400mA	0.04A	6.5W	2.8-5.2W	0.92	72%	7-13V	25V
	450mA	0.06A	8W	3.15-5.85W	0.92	74%	7-13V	25V
	500mA	0.06A	9.5W	3.5-6.5W	0.92	74%	7-13V	25V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Phase dimming
	Dimming Range	10%-100%
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC_stable
	Range of Input Voltage	198-264VAC_stable or 180-280VDC_stable
	Frequency	50/60Hz
	Input Current	≤0.06A
	Input Power	≤10W
	Power Factor	≥0.92 (230VAC,full load)
	THD	N/A
Output	Output Voltage	26-40V @CC7W100-180CG Triac

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		12-20V @CC7W180-350CG Triac
		7-13V @CC7W350-500CG Triac
	Output Current	100mA/120mA/140mA/180mA @CC7W100-180CG Triac
		180mA/200mA/300mA/350mA @CC7W180-350CG Triac
		350mA/400mA/450mA/500mA @CC7W350-500CG Triac
	No Load Voltage	55VDC Max. @CC7W100-180CG Triac
		35VDC Max. @CC7W180-350CG Triac
		25VDC Max. @CC7W350-500CG Triac
	Max. Output Power	7.2W
	Efficiency	≥74%
	Current Ripple (<120Hz)	±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	I/P to O/P , 3.75KVac/1min
	Ta/Operation Temperature	-20....+50℃
Environment	Ts/Storage Temperature	-40....+85℃
	Tc/Enclosure Temperature	85 ℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
Construction	Installation	Independent & Built in
	PRI Wire preparation	0.75-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	Independent:122*41*23mm (L*W*H) Built in:88*41*23mm(L*W*H)
	Certification	complied to CE ENEC SAA
Standards	Safety Standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017 EN62384:2006/A1:2009 , AS61347.2.13:2018, AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC55015:2019, EN IEC55015:2019/A11:2019, EN IEC61000-3-2:2019, EN 61000-3-3:2013/A1:2019,EN61547:2009
	Performance	EN62384
	Surge	L-N/1KV
	RoHS	complied to 2011/65/EU
Others	Life Time	50000h @50℃ (Ta) / 85℃ (Tc)
	Warranty	5years , F.R. < 10000ppm

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	Noise	15cm <28dB
	Noise	≤ 28dB @Background noise ≤18dB , Interval≥15cm
Remark: 1. Specific instructions are not all parameters are not connect dimmer input voltage 230 vac / 50 Hz and 25 °C ambient temperature measured. 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. 3. Trailing edge dimmable.		

2. Trailing Edge Dimmer list approved by KGP

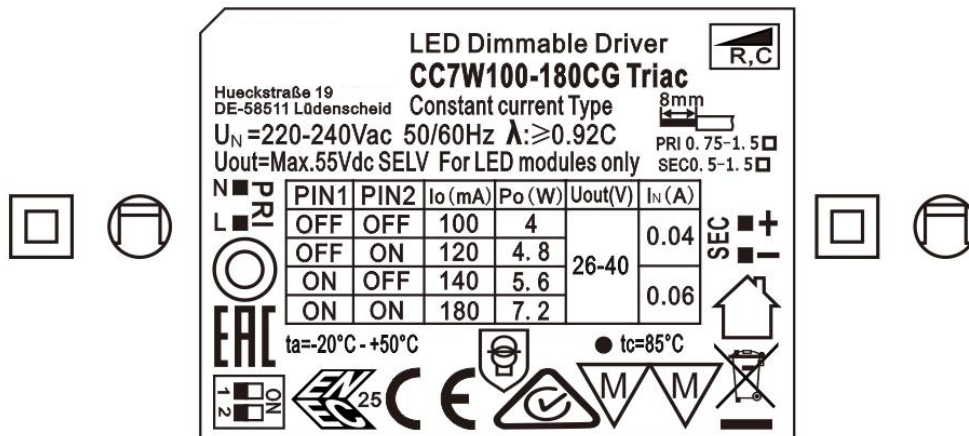
Manufacturer	Model	Q'ty of parallel connection
ABB	6519 U	13
ABB	6526 U	12
JUNG	1224 LED UDE	12
Berker	2861	12
JUNG	254 UDIE 1	13
JUNG	225 TDE	12
EGANT	U321V2	12
Schneider	SBD200LED	12
Schneider	SBD315RC	14
Berker	2874	12
Eetako	EUD61NP-230V	12
Eetako	DTD55L-230Vwg	10
GIRA	Universal-LED-Dimmer Mini2440 00	10
EHMANN	LED-Dimmer T46.08	10
JUNG	DrehDimmer Universal LED1731DD	10

Leading Edge Dimmer list only on request -/ or confirmed by KGP Electronics

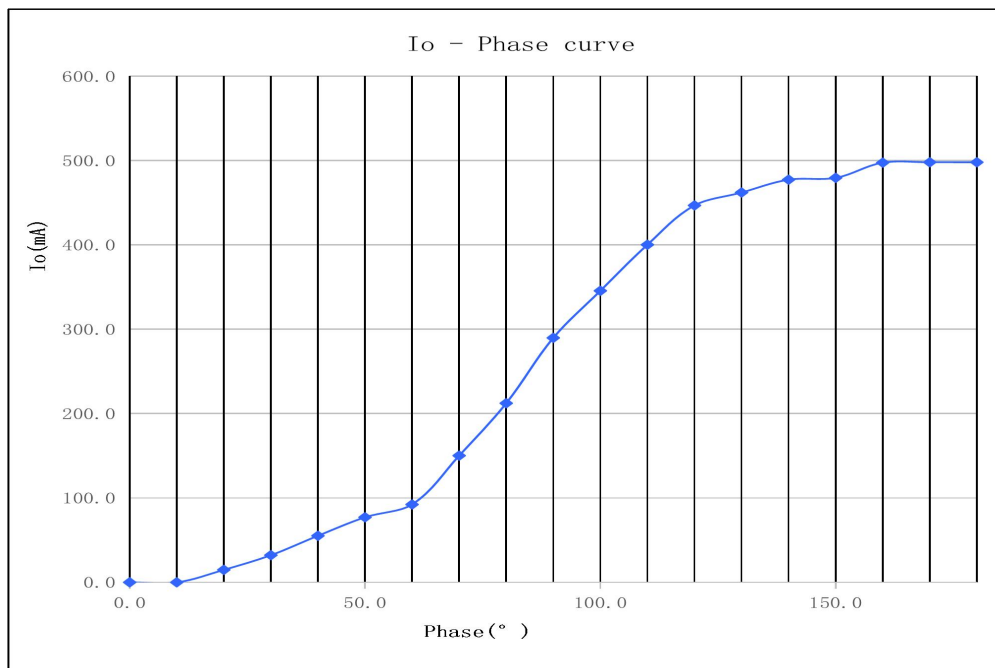
3. Connected quantities of different current Breaker

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		120	156	192	240	300	@230VAC	5	12.8µs
TYPE C		192	250	307	384	480			
TYPE D		307	399	492	614	768			

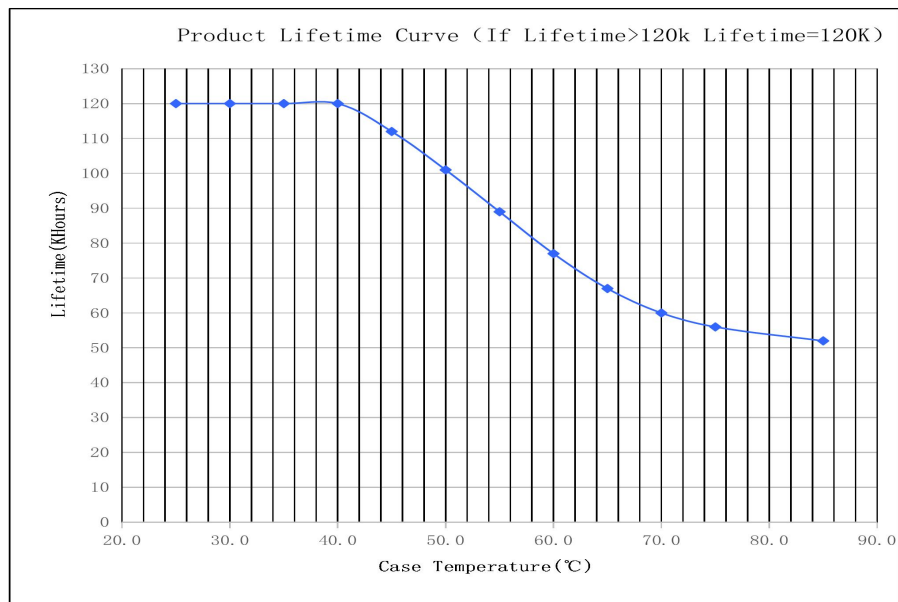
4. Label



5. Dimming curve

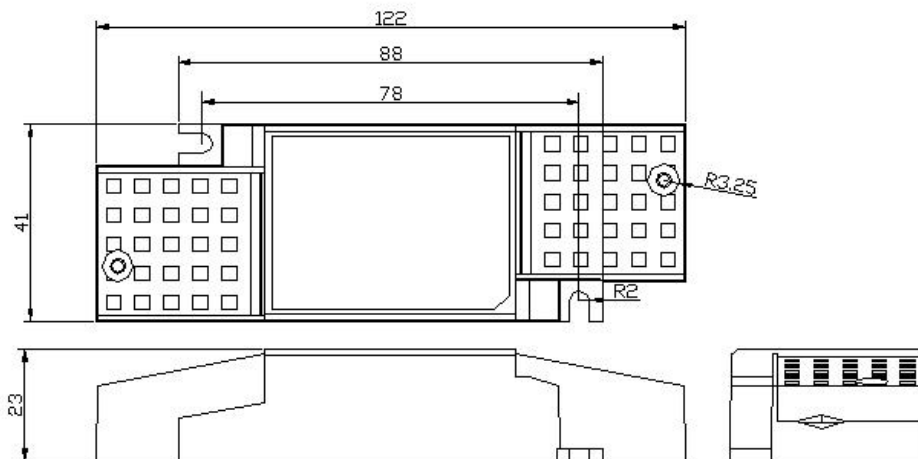


6. Lifetime curve

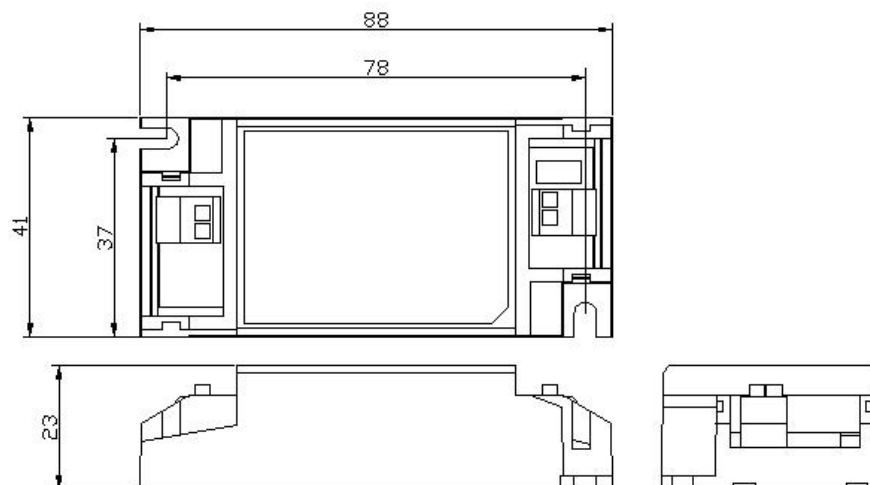


7. Dimension (Unit: mm)

Independent type:



Built in type:

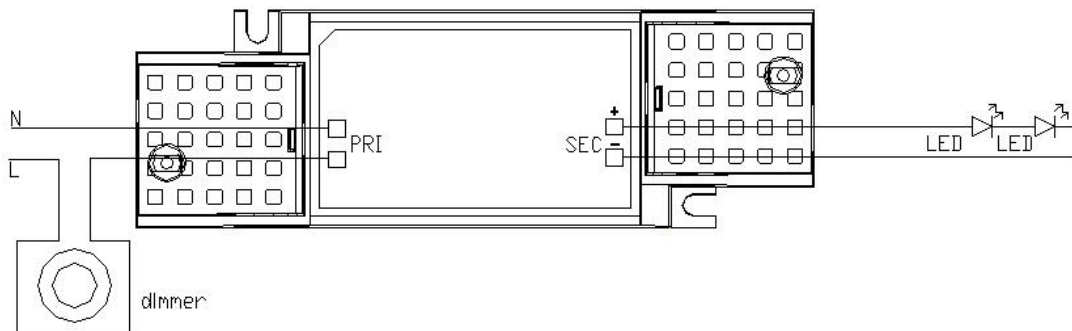


8. Packing information

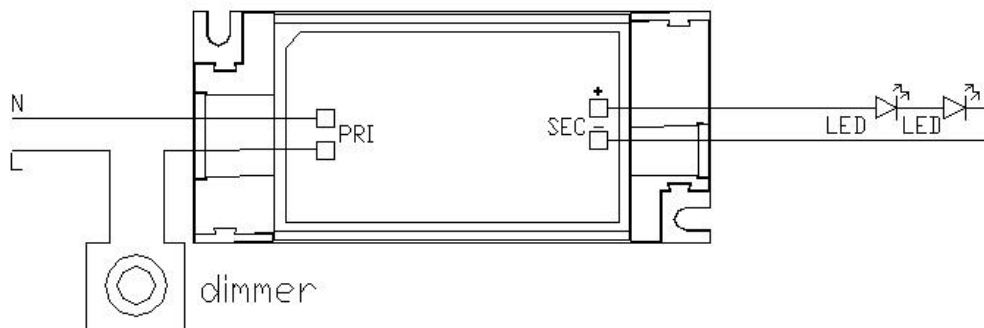
Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
With white box and manual	CC7WXXX-XXXCG Triac	457*250*220	120	0.07	8.4	9.55
Without white box and manual			80	0.07	5.6	6.54

9. Wiring Diagram

Independent type:



Built in type:



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.)

11. REVISION HISTORY

DATE	VER	REMARK
2023-02-01	V1.0	Initial release.