



Constant Current & Dimmable Driver

Model: CC20WXXX-XXXCG Triac



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC20W350-500CG Triac	350mA	0.13A	19W	9.1-13.3W	0.92	83%	26-38V	55V
	400mA	0.13A	21W	10.4-15.2W	0.92	83%	26-38V	55V
	450mA	0.15A	23W	11.7-17.1W	0.92	84%	26-38V	55V
	500mA	0.15A	25W	13-19W	0.92	84%	26-38V	55V
CC20W500-700CG Triac	500mA	0.13A	19W	7.5-14W	0.92	82%	15-28V	43V
	550mA	0.13A	21W	8.25-15.4W	0.92	82%	15-28V	43V
	600mA	0.15A	23W	9-16.8W	0.92	83%	15-28V	43V
	700mA	0.15A	25W	10.5-19.6W	0.92	83%	15-28V	43V
CC20W700-900CG Triac	700mA	0.13A	19W	9.8-15.4W	0.92	82%	14-22V	35V
	800mA	0.13A	21W	11.2-17.6W	0.92	82%	14-22V	35V
	850mA	0.15A	23W	11.9-18.7W	0.92	82%	14-22V	35V
	900mA	0.15A	25W	12.6-19.8W	0.92	82%	14-22V	35V

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	≤0.15A
	Input Power	≤25W
	Power Factor	≥0.92 (230VAC,full load)
	THD	≤20% (230VAC,full load)
Output	Output Voltage	26-38V@CC20W350-500CG Triac
		15-28V @CC20W500-700CG Triac

CC20WXXX-XXXCG Triac

		14-22V @CC20W700-900CG Triac
	Output Current	350mA/400mA/450mA/500mA @CC20W350-500CG Triac
		500mA/550mA/600mA/700mA @CC20W500-700CG Triac
		700mA/800mA/850mA/900mA @CC20W700-900CG Triac
	No Load Voltage	55VDC Max.@CC20W350-500CG Triac
		43VDC Max.@CC20W500-700CG Triac
		35VDC Max.@CC20W700-900CG Triac
	Max. Output Power	19.8W
	Efficiency	≥84%
	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:137.6*44*30mm (L*W*H) Built in:97.8*44*30mm(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°C (Ta) / 85°C (Tc)
	Warranty	5years , F.R. < 10000ppm
	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

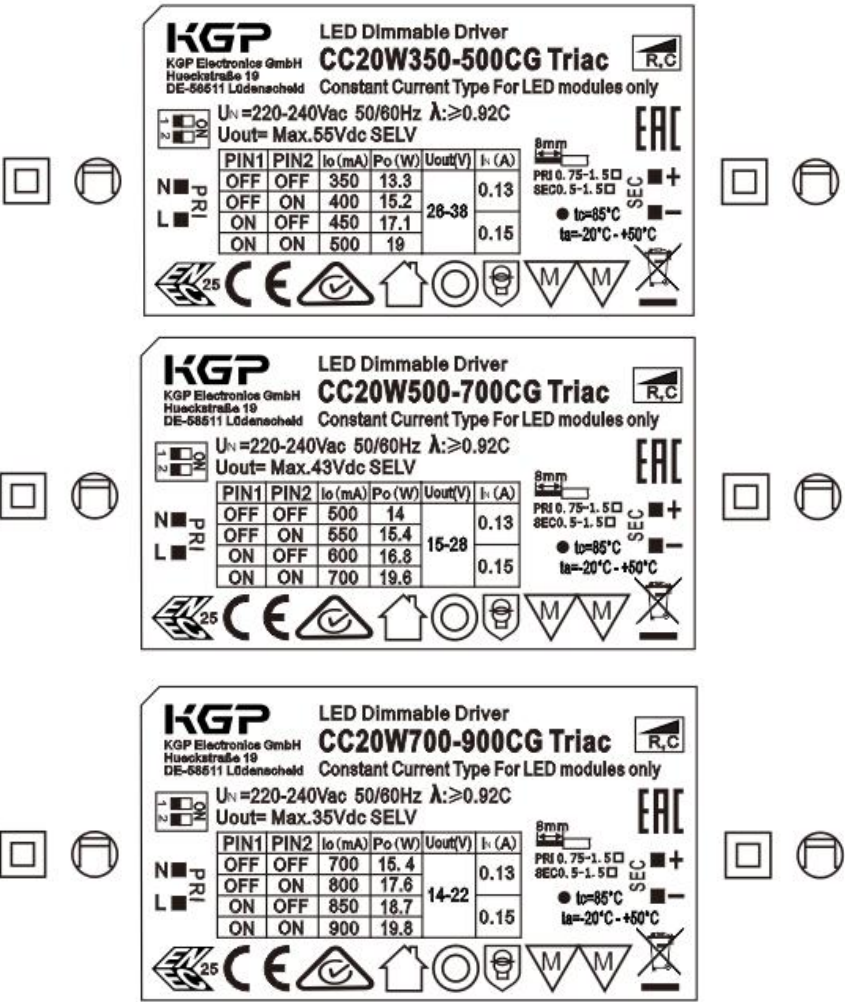
Manufacturer	Model	Q' ty of parallel connection
ABB	6519 U	12
ABB	6526 U	11
JUNG	1224 LED UDE	12
Berker	2861	12
JUNG	254 UDIE 1	13
JUNG	225 TDE	12
EGANT	U321V2	12
Schneider	SBD200LED	13
Schneider	SBD315RC	12
Berker	2874	12
Eetako	EUD61NP-230V	10
Eetako	DTD55L-230Vwg	10
GIRA	Universal-LED-Dimmer Mini2440 00	10
EHMANN	LED-Dimmer T46.08	9
JUNG	DrehDimmer Unversal LED1731DD	10

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

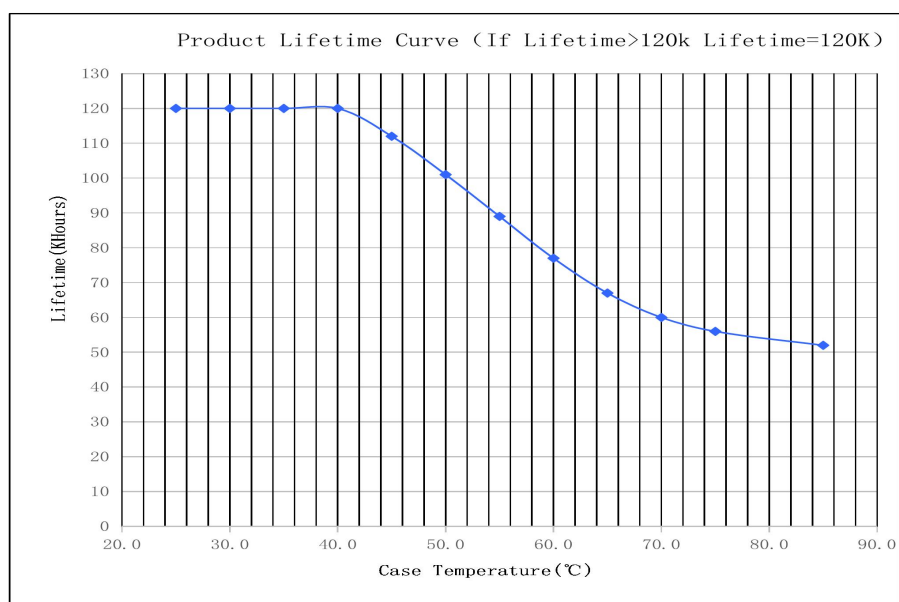
3. Connected quantities of different current Breaker

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		30	39	48	60	75	@230VAC	20	10µs
TYPE C		48	62	77	96	120			
TYPE D		77	100	123	154	192			

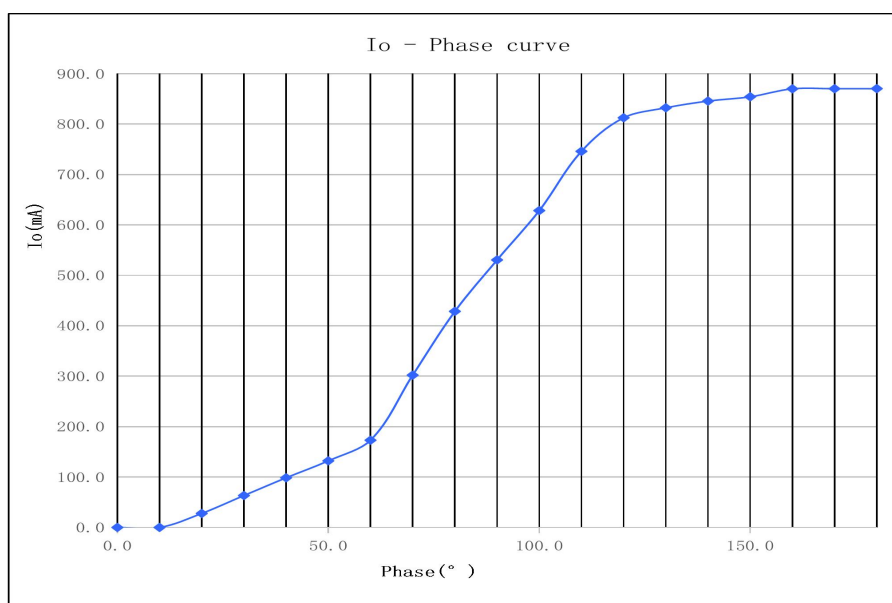
4. Label



5. Dimming curve

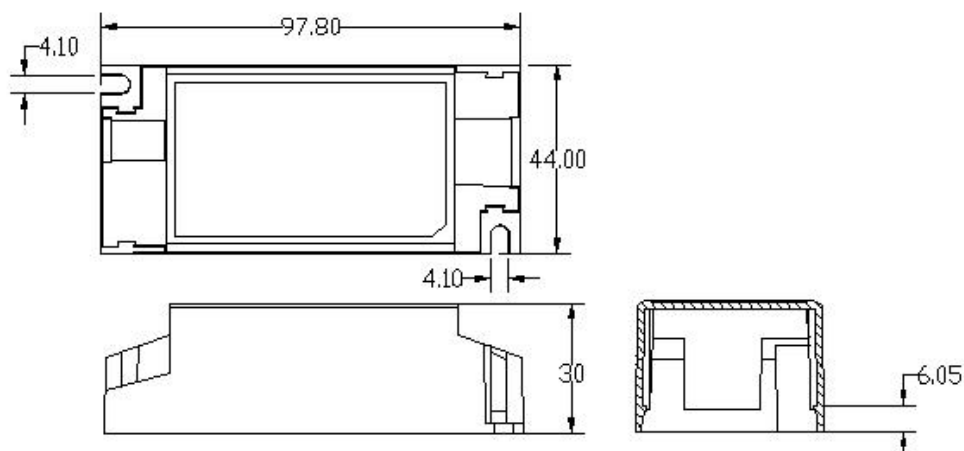


6. Lifetime curve

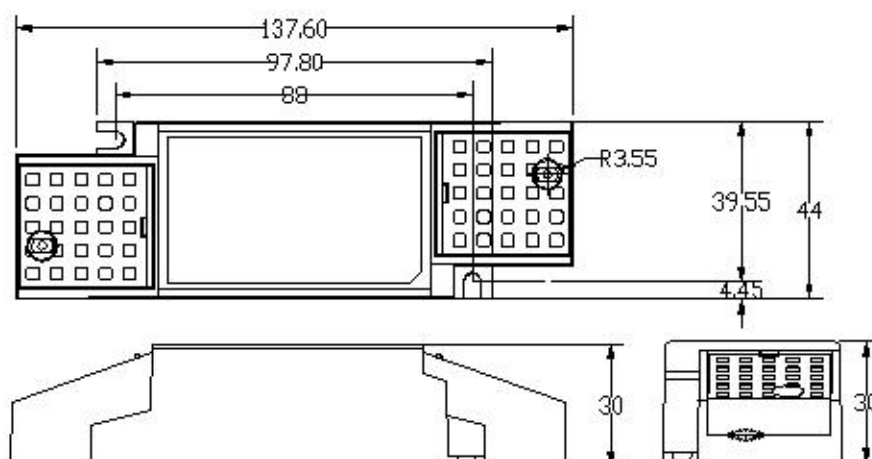


7. Dimension (Unit: mm)

Independent type:



Built in type:

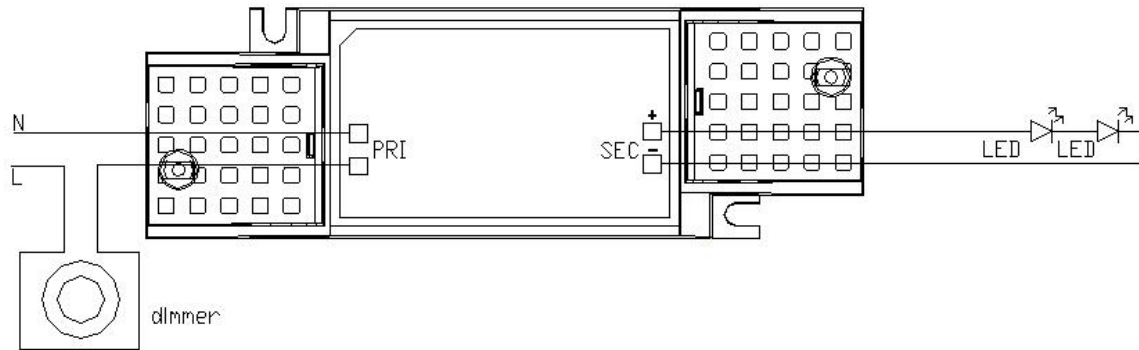


8. Packing information

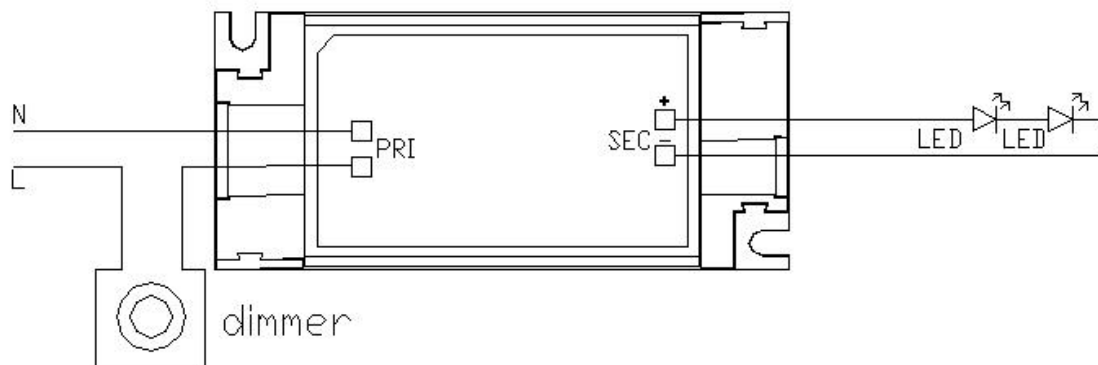
Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
With white box and manual	CC20WXXX-XXXCG Triac	457*250*220	90	0.105	9.45	10.75
Without white box and manual			80	0.105	8.4	9.5

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.