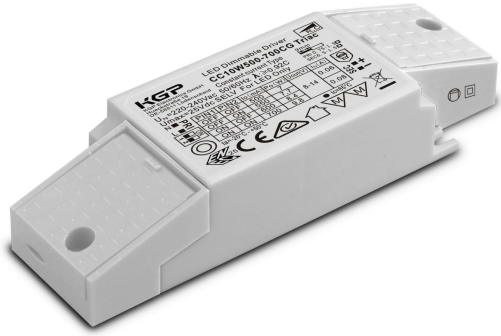
Constant Current & Dimmable Driver



Model: CC10W180-270CG Triac
CC10W200-350CG Triac
CC10W350-500CG Triac
CC10W500-700CG Triac

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC10W180-270CG Triac	180mA	0.06A	8W	4.68-6.8W	0.92	78%	26-38V	55V
	200mA	0.06A	10W	5.2-7.6W	0.92	78%	26-38V	55V
	250mA	0.08A	12W	6.5-9.5W	0.92	80%	26-38V	55V
	270mA	0.08A	14W	7.02-10W	0.92	80%	26-38V	55V
CC10W200-350CG Triac	200mA	0.06A	8W	3.2-5.8W	0.92	78%	16-29V	45V
	250mA	0.06A	10W	4-7.2W	0.92	78%	16-29V	45V
	300mA	0.08A	12W	4.8-8.7W	0.92	80%	16-29V	45V
	350mA	0.08A	14W	5.6-10W	0.92	80%	16-29V	45V
CC10W350-500CG Triac	350mA	0.06A	8W	4.2-7W	0.92	77%	12-20V	35V
	400mA	0.06A	10W	4.8-8W	0.92	77%	12-20V	35V
	450mA	0.08A	12W	5.4-9W	0.92	80%	12-20V	35V
	500mA	0.08A	14W	6-10W	0.92	80%	12-20V	35V
CC10W500-700CG Triac	500mA	0.06A	8W	4-7W	0.92	77%	8-14V	25V
	550mA	0.06A	10W	4.4-7.7W	0.92	77%	8-14V	25V
	600mA	0.08A	12W	4.8-8.4W	0.92	78%	8-14V	25V
	700mA	0.08A	14W	5.6-9.8W	0.92	78%	8-14V	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

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	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	≤0.08A
	Input Power	≤14W
	Power Factor	≥0.92 （230VAC,full load）
	THD	≤15%
	No-load Power Consumption	≤1W @230VAC
	Inrush Current	≤8A/10us （230VAC,full load）
	Connected quantity of 16A Breaker ：	75pcs/type B ; 120pcs/type C
Output Voltage	CC10W180-270CG Triac	26-38V
	CC10W200-350CG Triac	16-29V
	CC10W350-500CG Triac	12-20V
	CC10W500-700CG Triac	8-14V
Output Current	CC10W180-270CG Triac	180mA/200mA/250mA/270mA
	CC10W200-350CG Triac	200mA/250mA/300mA/350mA
	CC10W350-500CG Triac	350mA/400mA/450mA/500mA
	CC10W500-700CG Triac	500mA/550mA/600mA/700mA
No Load Voltage	CC10W180-270CG Triac	55VDC Max.
	CC10W200-350CG Triac	45VDC Max.
	CC10W350-500CG Triac	35VDC Max.
	CC10W500-700CG Triac	25VDC Max.
Output	Max. Output Power	10W
	Efficiency	≥78%
	Current Ripple（<120Hz）	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Started Delay Time	≤0.5S （230VAC,full load）
	Pst LM	＜1
	SVM	＜0.4
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

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	Atmosphere	86-108KPa
	Connection Method	Push-in Terminal
Construction	Installation	Independent & Buitl 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
	Noise	15cm ＜28dB
Remark: 1.Specific instructions are not all parameters are not connect dimmer input voltage 230 vac / 50 Hz and 25 ℃ 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	13
Eetako	EUD61NP-230V	12
Eetako	DTD55L-230Vwg	10
GIRA	Universal-LED-Dimmer Mini2440 00	10
EHMANN	LED-Dimmer T46.08	10
JUNG	Drehdlmmer Unlversal LED1731DD	10

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

3. Label


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LED Dimmable Driver
CC10W350-500CG Triac
Constant current Type
R,C
8mm
PRI 0.75-1.5
SEC0.5-1.5
UN =220-240Vac 50/60Hz λ:≥0.92C
Uout=Max.35Vdc SELV For LED modules only
N
L
PRI
SEC
PIN1 PIN2 Io(mA) Po(W) Uout(V) IN(A)
OFF OFF 350 7 12-20 0.06
OFF ON 400 8
ON OFF 450 9 0.08
ON ON 500 10
ta=-20°C - +50°C
tc=85°C
ON
1 2


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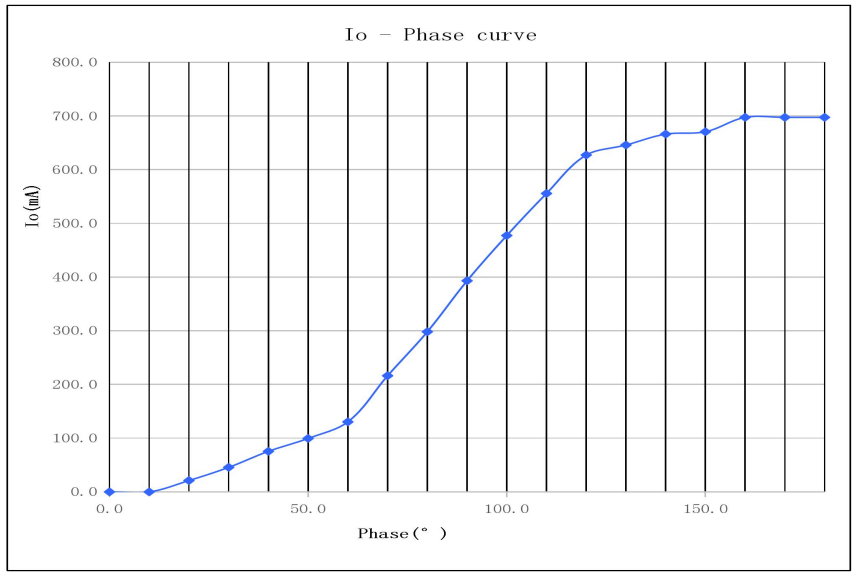
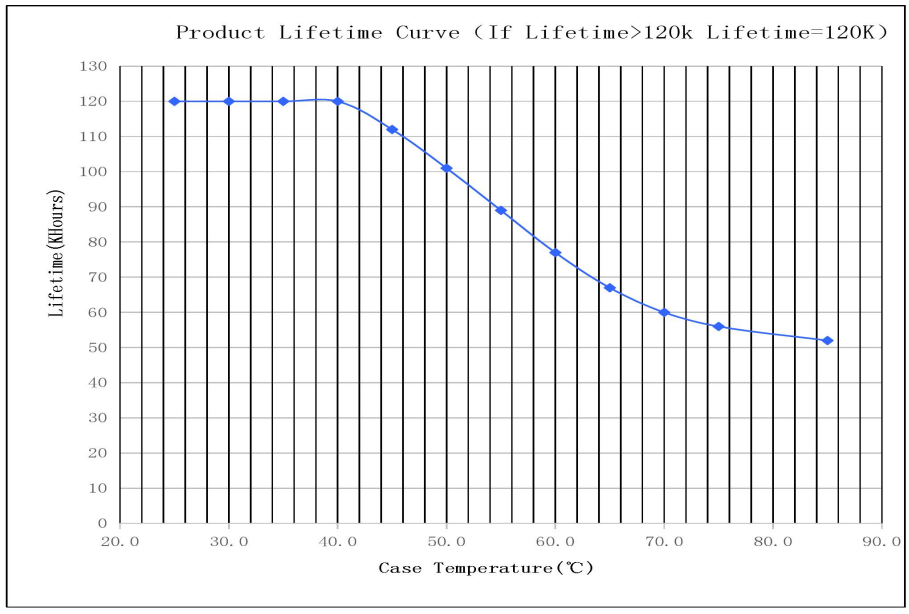
LED Dimmable Driver
CC10W500-700CG Triac
Constant current Type
R,C
8mm
PRI 0.75-1.5
SEC0.5-1.5
UN =220-240Vac 50/60Hz λ:≥0.92C
Uout=Max.25Vdc SELV For LED modules only
N
L
PRI
SEC
PIN1 PIN2 Io(mA) Po(W) Uout(V) IN(A)
OFF OFF 500 7 8-14 0.06
OFF ON 550 7.7
ON OFF 600 8.4 0.08
ON ON 700 9.8
ta=-20°C - +50°C
tc=85°C
ON
1 2

4. Dimming curve

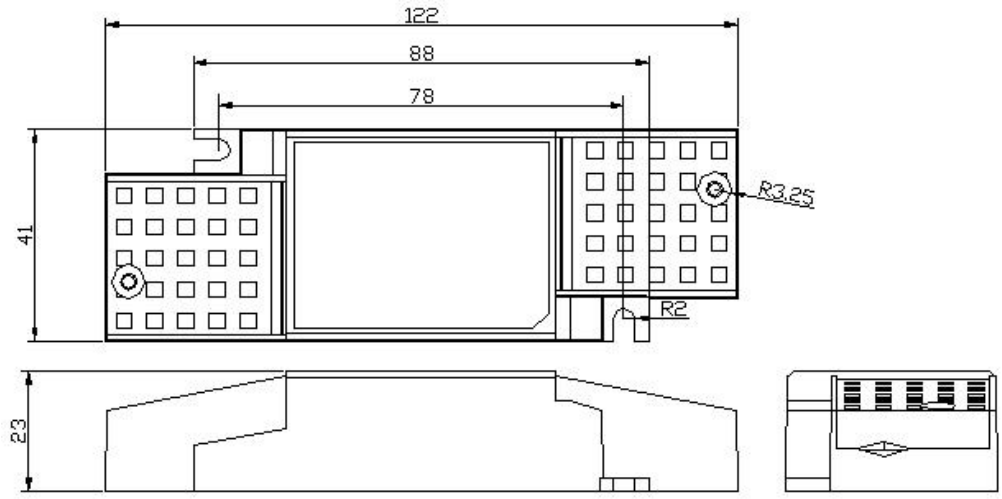


5. Lifetime curve

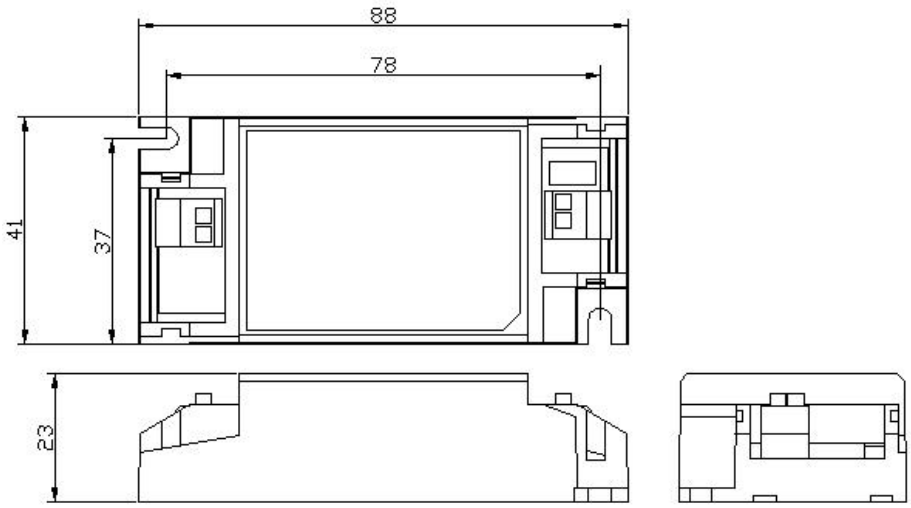


6. Dimension （Unit：mm）

Independent type:



Built in type:



7. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
450*240*200	90	0.077	6.93	8.63

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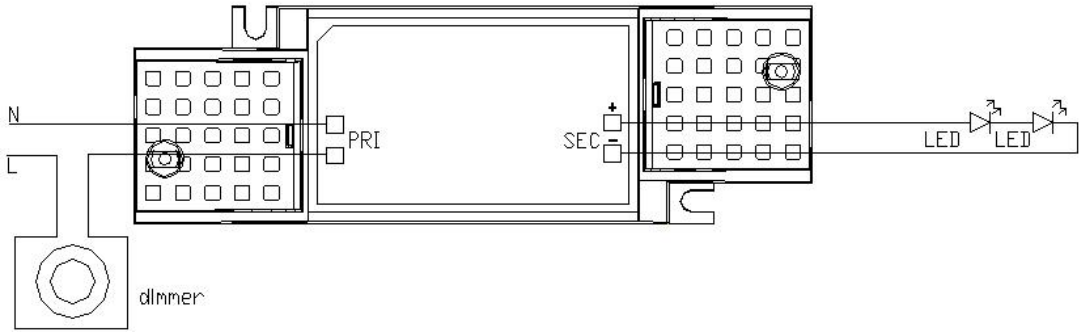
8. Wiring Diagram

Independent type:



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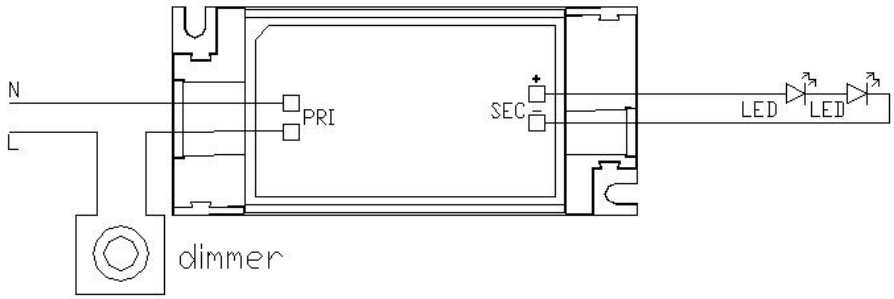

9. Wiring instructions

• 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.)