



Constant Current Dimmable Driver

Model:RCXXWXXX Triac



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
RC3W300 Triac	300mA	0.06A	7W	2.4-3.9 W	0.9	65%	8-13V	25V
RC3W350 Triac	350mA	0.06A	7W	2.8-4.5W	0.9	65%	8-13V	25V
RC7W180 Triac	180mA	0.06A	10.5W	4.86-7.2W	0.9	70%	27-40V	55V
RC7W200 Triac	200mA	0.08A	10.5W	5.4-8W	0.9	70%	27-40V	70V
RC7W250 Triac	250mA	0.08A	10.5W	4.75-7.5W	0.9	70%	19-30V	52V
RC7W300 Triac	300mA	0.08A	10.5W	3.9-6.3W	0.9	70%	13-21V	35V
RC7W350 Triac	350mA	0.08A	10.5W	4.55-7W	0.9	70%	13-20V	35V
RC7W500 Triac	500mA	0.08A	10.5W	4-6.5W	0.9	70%	8-13V	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	≤0.08A
	Input Power	≤ 10.5W
	Power Factor	≥0.9 (230VAC,full load)
Output	Current Accuracy	±5%
	Max. Output Power	8W
	Started Delay Time	≤0.5S (230VAC,full load)
	Current Ripple	±5% (Imax-Imin) / (Imax+Imin)
	PstLM	≤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 , 3KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250μA
Environment	Ta/Operation Temperature	-20....+60℃
	Ts/Storage Temperature	-40....+85℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Direct Lead
	Installation	Build-in
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	Φ42.3*20.2mm (R*H)
Standards	Certification	TUV、CE、SAA
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, EN62493:2015,AS/NZS IEC61347.2.13:2018, AS/NZS61347.1:2016 Inc AI
	EMC Standards	EN IEC 55015:2019,EN IEC 55015:2019/A11:2019, EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019,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
	Noise	≤ 28dB@Background noise ≤18dB , Interval≥15cm

Remark

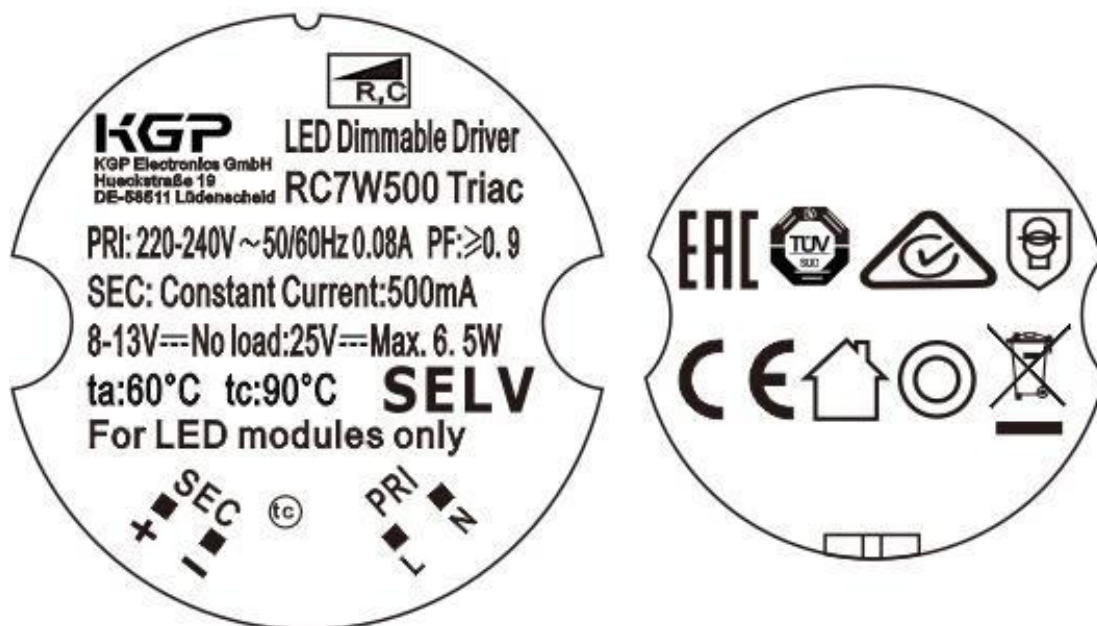
1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

2. Trailing Edge Dimmer list approved by KGP

Manufacturr	Model	Q'ty of parallel connection
ABB	6519 U	15
ABB	6526 U	13
JUNG	1224 LED UDE	14
Berker	2861	10
JUNG	254 UDIE 1	10
JUNG	225 TDE	14
EGANT	U321V2	15
Schneider	SBD200LED	13
Schneider	SBD315RC	14
Merten	SBD200LED	13
Berker	2874	12
Eetako	EUD61NPL-230V	12

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

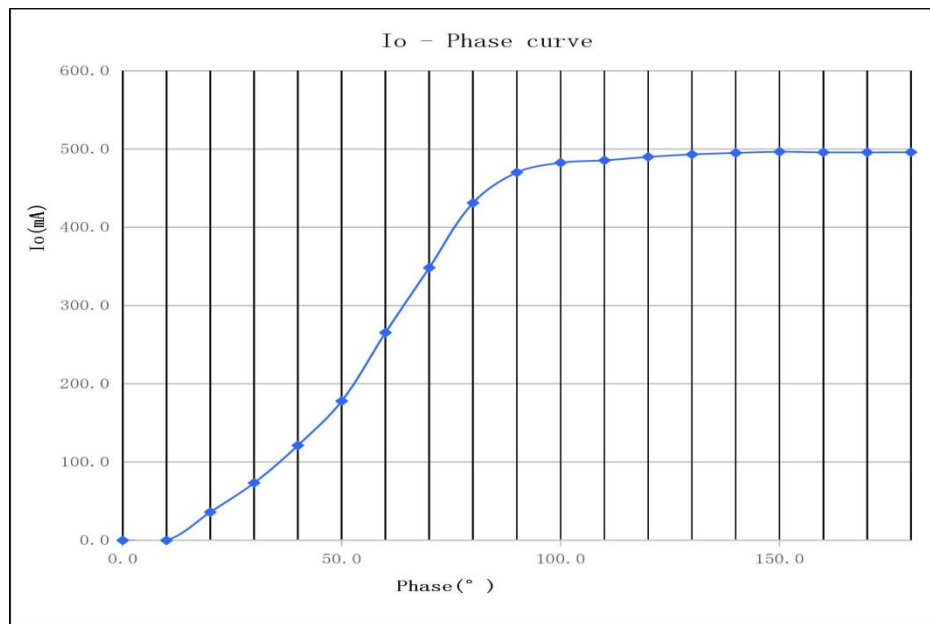
3. Label (For example)



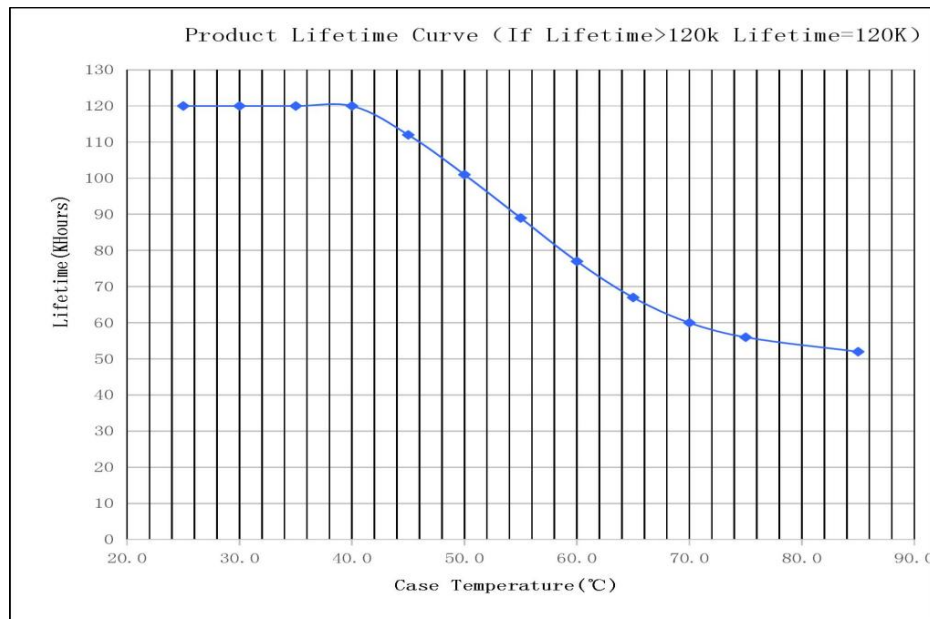
4. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B		75	98	120	150	188	@230VAC	8	400us
TYPE C		120	156	192	240	300			
TYPE D		192	250	307	384	480			

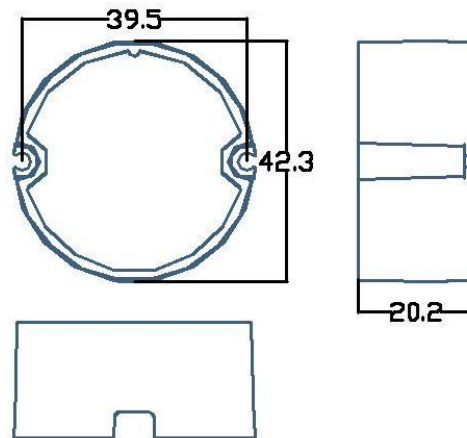
5. Dimming curve



6. Lifetime curve



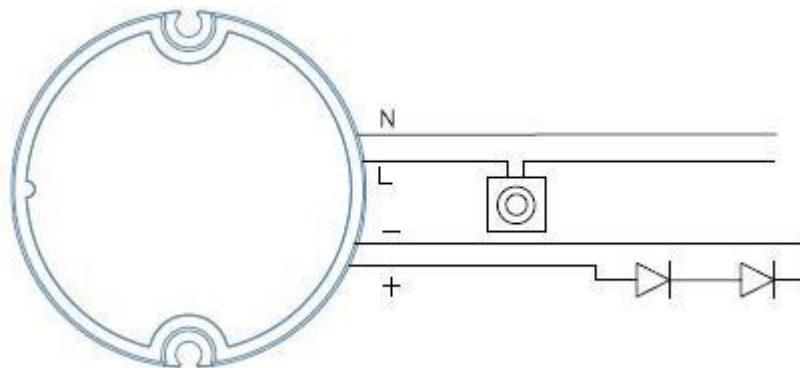
7. Dimension (Unit: mm)



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	RCXWXXX Triac	457*250*220	150	0.077	11.55	11.95
Without white box and manual		420*280*180	180	0.077	13.86	14.55

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.)