RCXXWXXXG1 Triac

Constant Current & Dimmable Driver

Model: RC36WXXXG1 Triac

Model	Output Current	Input Current	Input Power	Output Power Range	full load PF	Efficiency	Output Voltage	No load Voltage
RC26W900G1 Triac	900mA	≤0.17A	≤31W	14.4-25.2W	≥0.92	≥84%	16-28V	≤36V
RC28W700G1 Triac	700mA	≤0.18A	≤34W	18.9-28W	≥0.92	≥86%	27-40V	≤50V
RC36W800G1 Triac	800mA	≤0.22A	≤42W	21.6-33.6W	≥0.92	≥85%	27-42V	≤55V
RC36W900G1 Triac	900mA	≤0.22A	≤45W	24.3-36W	≥0.92	≥85%	27-40V	≤55V
RC40W1000G1 Triac	1000mA	≤0.25A	≤48.8W	27-40W	≥0.92	≥86%	27-40V	≤55V
RC36W1050G1 Triac	1050mA	≤0.22A	≤43W	24.15-36.75W	≥0.92	≥86%	23-35V	≤45V

*** 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	IP44
	Insulation Class	Class Ⅱ
Input	Rated Input Voltage	220-240VAC_stable
	Range of Input Voltage	198-264VAC_stable or 180-280VDC_stable
	Frequency	0/50/60Hz
	Input Current	≤0.25A（230VAC,full load）
	Input Power	≤ 48.8W（230VAC,full load）
	Power Factor	≥0.92（230VAC,full load）
	THD	≤25%(230VAC，full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤13.9A/168us (230VAC，full load)
Output	Output Voltage	16-28VDC@900mA, 27-40VDC@700mA 27-42VDC@800mA, 27-40VDC@ 900mA 27-40VDC@ 1000mA, 23-35VDC@ 1050mA
	Current Accuracy	±6%
	Max. Output Power	40W
	Started Delay Time	≤1S（230VAC,full load）
	Efficiency	≥86%（230VAC,full load）
	Current Ripple(< 120 Hz)	±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 , 3.75KVac/5mA/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P <0.7mA
Environment	Ta/Operation Temperature	-20….+60℃
	Ts/Storage Temperature	-25….+85℃
	Tc/Enclosure Temperature	90 ℃(RC36W1050G1 Triac, RC40W1000G1 Triac)
		85 ℃(RC26W900G1 Triac, RC28W700G1 Triac RC36W800G1 Triac, RC36W900G1 Triac)
	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	Φ69.5X25mm (R*H)
Standards	Certification	CE EAC
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020
	EMC Standards	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 IEC 61547:2023
	Performance	EN62384
	Surge	L-N/ 2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	RC26W900G1 Triac, RC28W700G1 Triac RC36W800G1 Triac, RC36W900G1 Triac ta=60℃,Tc=85℃ 50000H ; RC36W1050G1 Triac, RC40W1000G1 Triac ta=55℃,Tc=85℃ 50000H , ta=60℃,Tc=90℃ 40000H ;
	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℃ 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.

3. It is recommended that the control mode is back dimming for better effect.
4. Do not install upside down.

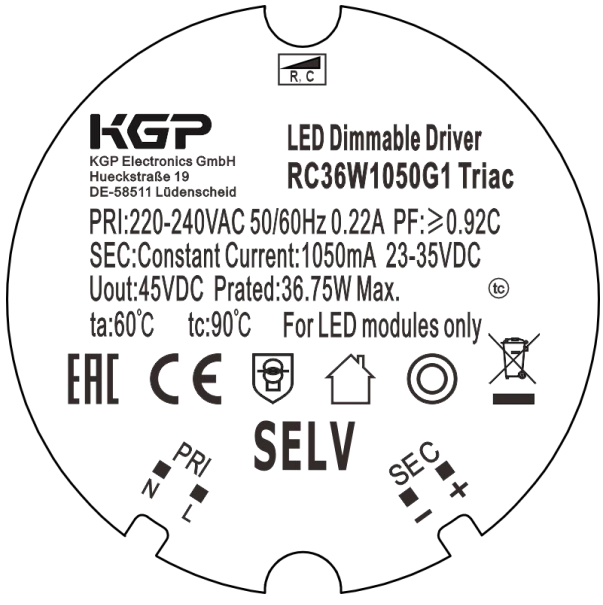
2. Trailing Edge Dimmer list approved by KGP

Manufacturer	Model	Q'ty of parallel connection
Yikai	EU-200P	T.B.D
Berker	286710	T.B.D
Schneider	SBD200LED	T.B.D
Schneider	SBD315RC	T.B.D
Eltako	DTD55L-230V-wg	T.B.D
ETMAN	ETM321PV2	T.B.D
EUCHIPS	Walldin 106	T.B.D
JISIM	JP1101	T.B.D

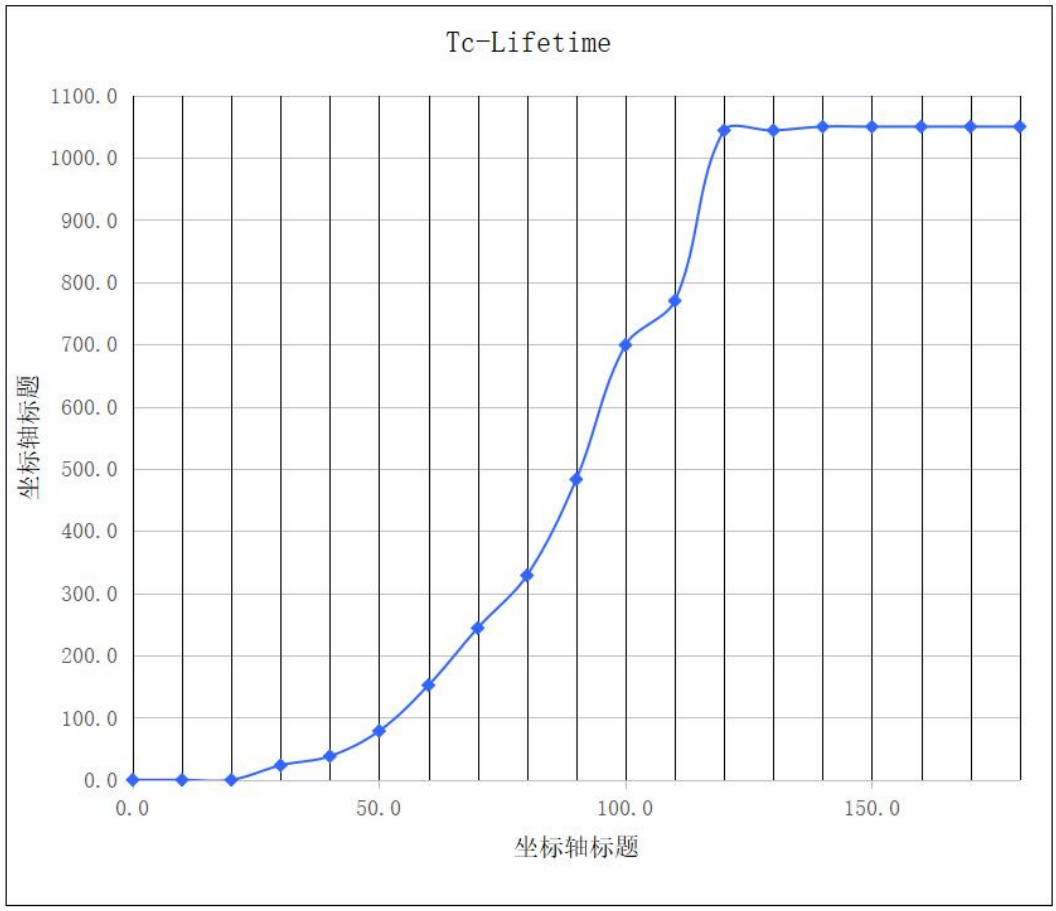
3. Connected quantities of different current Breaker

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		43	56	69	86	108	@230VAC	13.9	168us
TYPE C		69	90	111	138	173			
TYPE D		111	144	177	221	276			

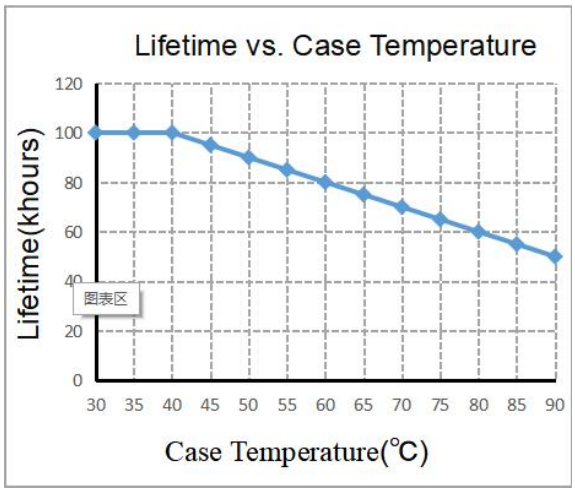
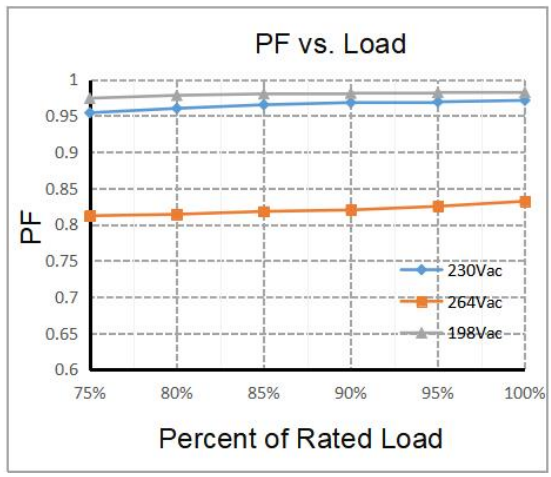
4. Label

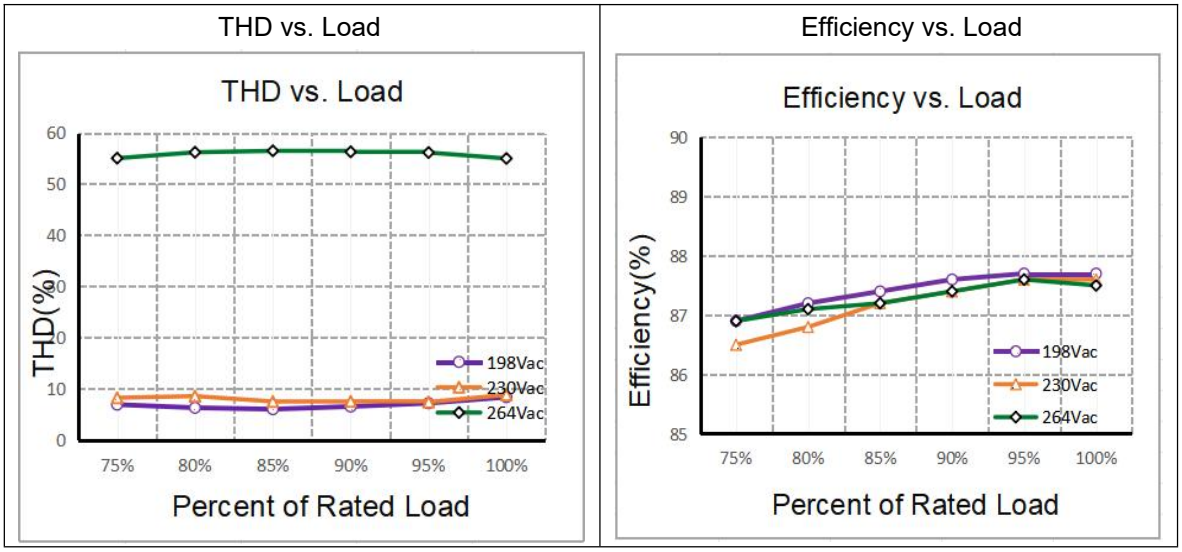


5. Dimming curve

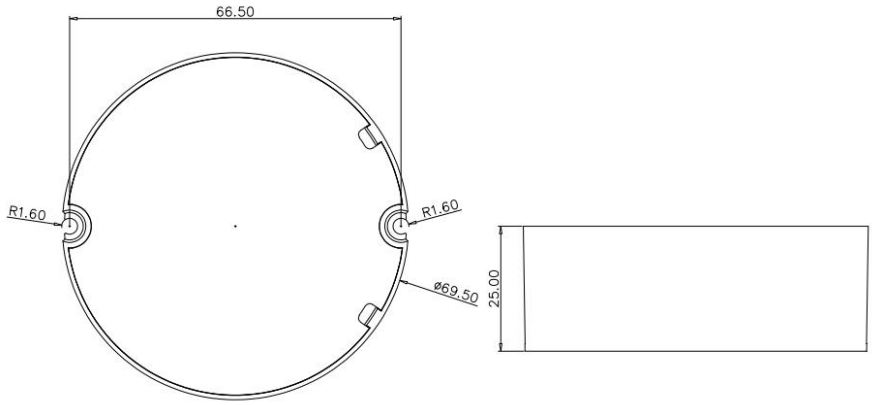


6. Electrical values

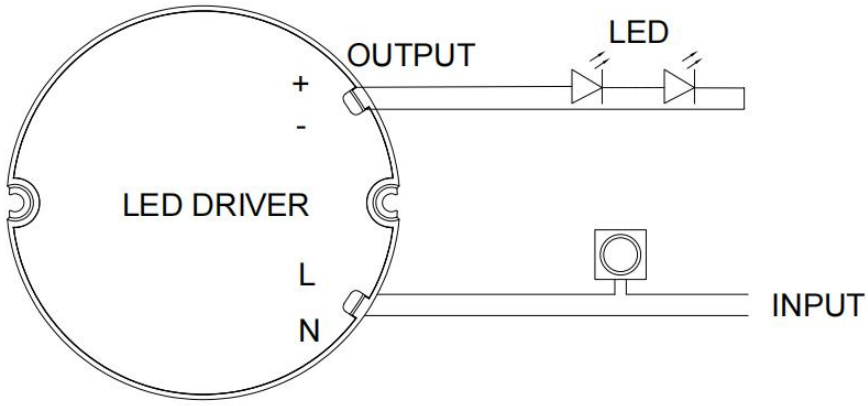
Lifetime vs. Case Temperature	PF vs. Load
	



7. Dimension （Unit：mm）



8. Wiring Diagram



Wiring type and cross section
Input: Brown-blue wire, 175mm ±5mm ,0.5mm²
Output: Red-black wire, 175mm ±5mm,0.3mm²

9. 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)
Indus trial	RCXXWXXXG1 Triac	White	410*270*160	90	0.170	15.3	16.1

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 0.5 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. Replace LED module

•Mains off
•Remove LED module
•Wait for 30 seconds
•Connect LED module again
•Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

12. REVISION HISTORY

DATE	REV.	REMARK
2025-11-12	V1.0	Initial release.