RC31W700-750

Constant Current Driver

Model: RC27W600-650
RC31W700-750

Model	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Current	Output Voltage	No load Voltage
RC27W600-650	0.16A	32	9-25.2W	0.92	85%	600mA	15-42V	59V
	0.17A	34	9.75-27.3W	0.92	86%	650mA		
RC31W700-750	0.18A	36	10.5-29.4W	0.95	87%	700mA		
	0.19A	38	11.25-31.5W	0.95	88%	750mA		

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

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class Ⅱ
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Frequency	50/60Hz
	Input Current	≤0.19A
	Input Power	≤33.2W
	Power Factor	≥0.9(230VAC，full load)
	THD	≤15% (230VAC，full load)
	No-load Power Consumption	≤0.5W
Output	Current Accuracy	±5%
	Max. Output Power	31.5W
	Started Delay Time	≤0.5S (230VAC，full load)
	LF 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

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	over-temperature protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P
Environment	Ta/Operation Temperature	-20….+60℃
	Ts/Storage Temperature	-30….+85℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%....90%RH
	Atmospheric pressure	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	Φ55*25mm (R*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, AS 61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019EN, IEC 55015:2019/A11:2019 ,EN IEC 61000-3-2:2019,EN 61000-3-3:2013/A1: 2019,EN61547:200
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta/ Tc
	Warranty	5years , F.R. < 10000ppm

Remark:
1.All Parameters, if not specified, are measured at 230VAC/50Hz ，At full load 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.

2. Output Current Setting

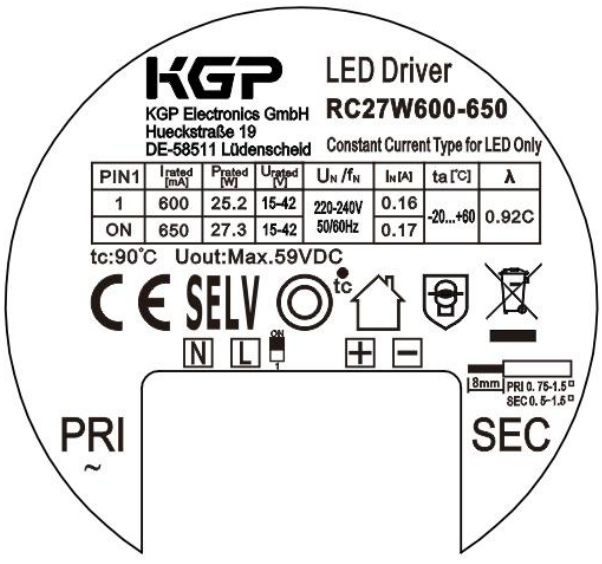
Output Current	Dial 1
750mA	ON
700mA	1

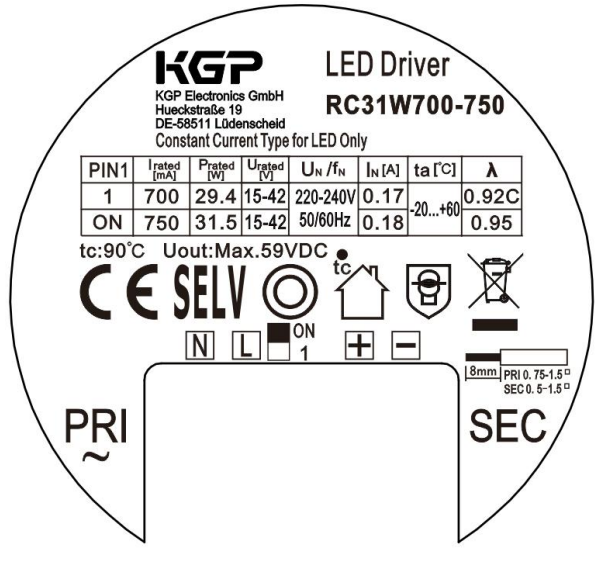
3. Connected quantities of different current Breaker

TYPE	RC27W600-650 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	600us
TYPE C		48	62	77	96	120			
TYPE D		77	100	123	154	192			

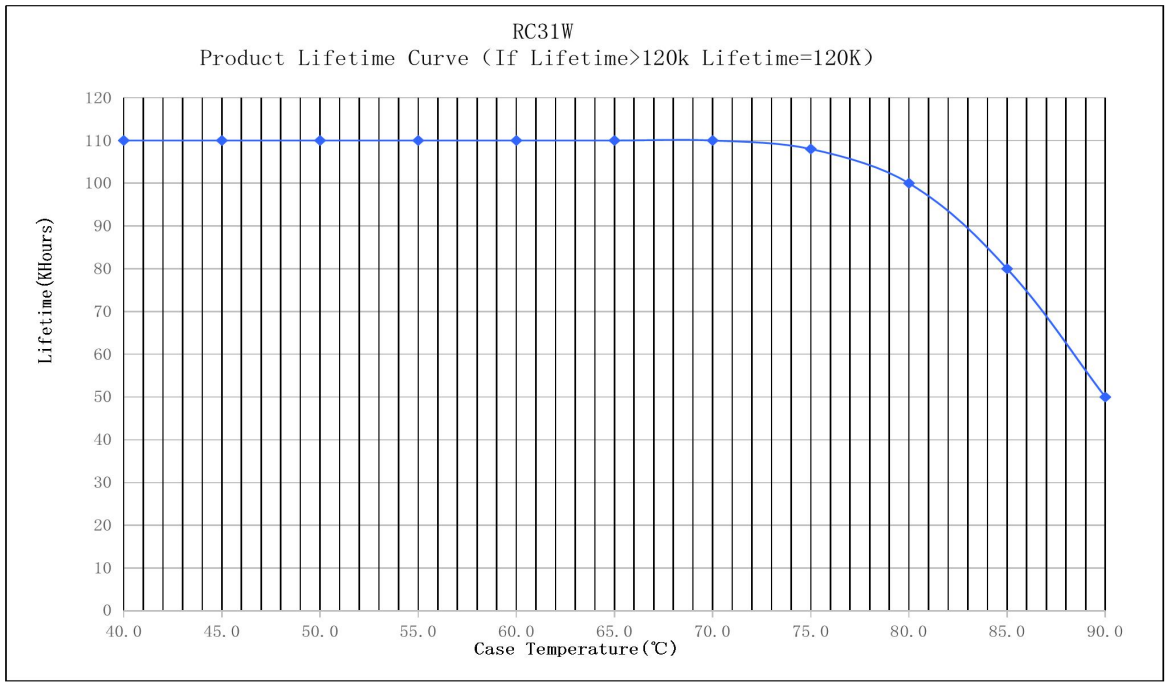
TYPE	RC31W700-750 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		29	38	47	59	74	@230VAC	20.4	640us
TYPE C		47	61	75	94	118			
TYPE D		75	98	120	151	188			

4. Label

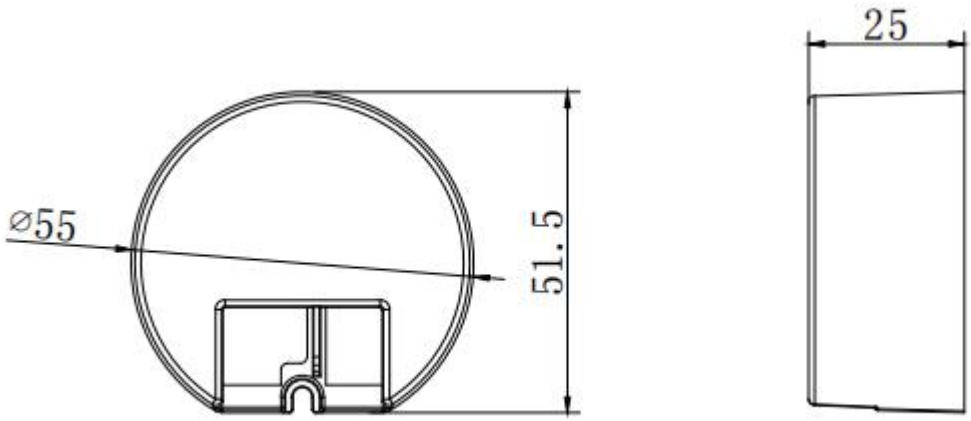




5. Lifetime curve



6. Dimension (Unit: mm)



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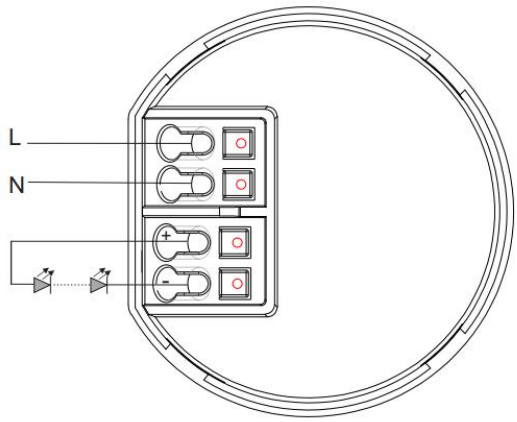
7. Packing information

Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
410*270*160	120	0.040	4.8	5.8

8. Wiring Diagram



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.)

10. REVISION HISTORY

DATE	VER	REMARK
2023-06-03	V1.0	Initial release.

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