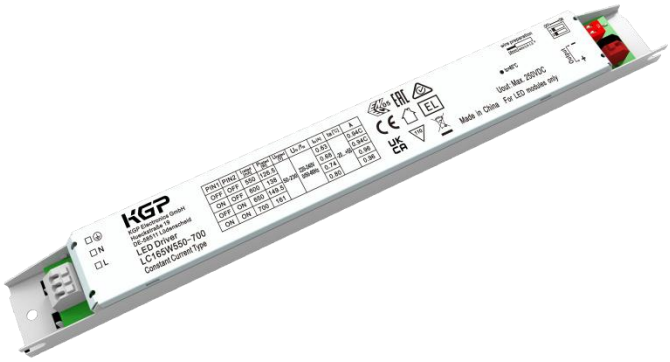
LC165W550-700

Constant Current Driver

Model:LC165W550-700



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC165W550-700	550mA	0.63A	138.0W	27.5-126.5W	0.95	92%	50-230V	250V
	600mA	0.68A	149.0W	30.0-138.0W	0.95	93%		
	650mA	0.74A	160.0W	32.5-149.5W	0.96	94%		
	700mA	0.80A	170.0W	35.0-161.0W	0.96	95%		

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

1.Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Non-isolation
	IP Grade	IP20
	Insulation Class	Class Ⅰ
Input	Rated Input Voltage	220-240V
	Range of AC Input Voltage	198-264VAC
	Range of DC Input Voltage	186-280VDC
	Frequency	0/50-60Hz
	Power Factor	≥0.96(230VAC, full Load, see graphs)
	THD	≤20%(230VAC, full Load, see graphs)
	No-load Power Consumption	≤0.5W @230VAC
Output	Current Accuracy	±5%
	Max. Output Voltage	250V
	Started Delay Time	≤0.5S (230VAC，full load)
	Current Ripple(< 120 Hz)	±5%（Imax-Imin）/（Imax+Imin）
	PstLM	≤1
	SVM	≤0.4
	Emergency output coefficient	1

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LC165W550-700

Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	O/P to PE , 1.5KVac/1min I/P to PE , 1.5KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 700μA
Environment	Ta/Operation Temperature	-20…+55℃
	Ts/Storage Temperature	-30....+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Built-in
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	280*30*21mm (L*W*H)
Standards	Certification	CE、ENEC、EAC、UKCA、SAA
	Safety Standards	EN61347-1:2015 EN61347-2-13:2014/A1:2017 EN62384:2006/A1:2009 EN62493:2015 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019 EN61547:2009 EN IEC 61000-3-2:2019 EN 61000-3-3:2013/A1:2019
	Performance	EN62384
	Surge	L-N:1KV；L/N-PE:2KV；
Others	RoHS	Complied to 2011/65/EU
	Life Time	50000h Tc=85℃, F.R. <10%
		75000h Tc=80℃, F.R. <10%
		100000h Tc=75℃, F.R. <10%
	Warranty	5years

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.The lamp controlgear replies upon the luminaire enclosure for protection against accidental contact with live .

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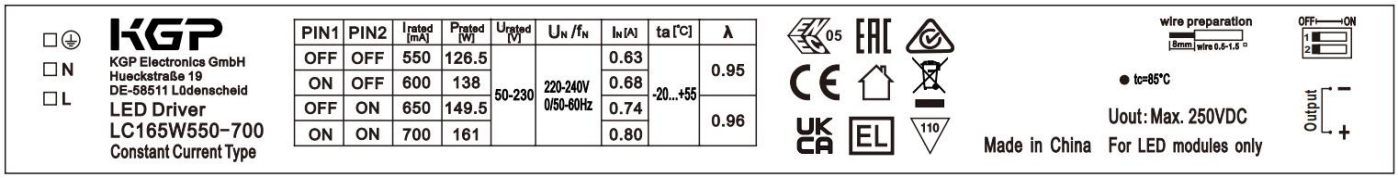
2.Output Current Setting

Output Current	Dial 1	Dial 2
700mA	ON	ON
650mA	OFF	ON
600mA	ON	OFF
550mA	OFF	OFF

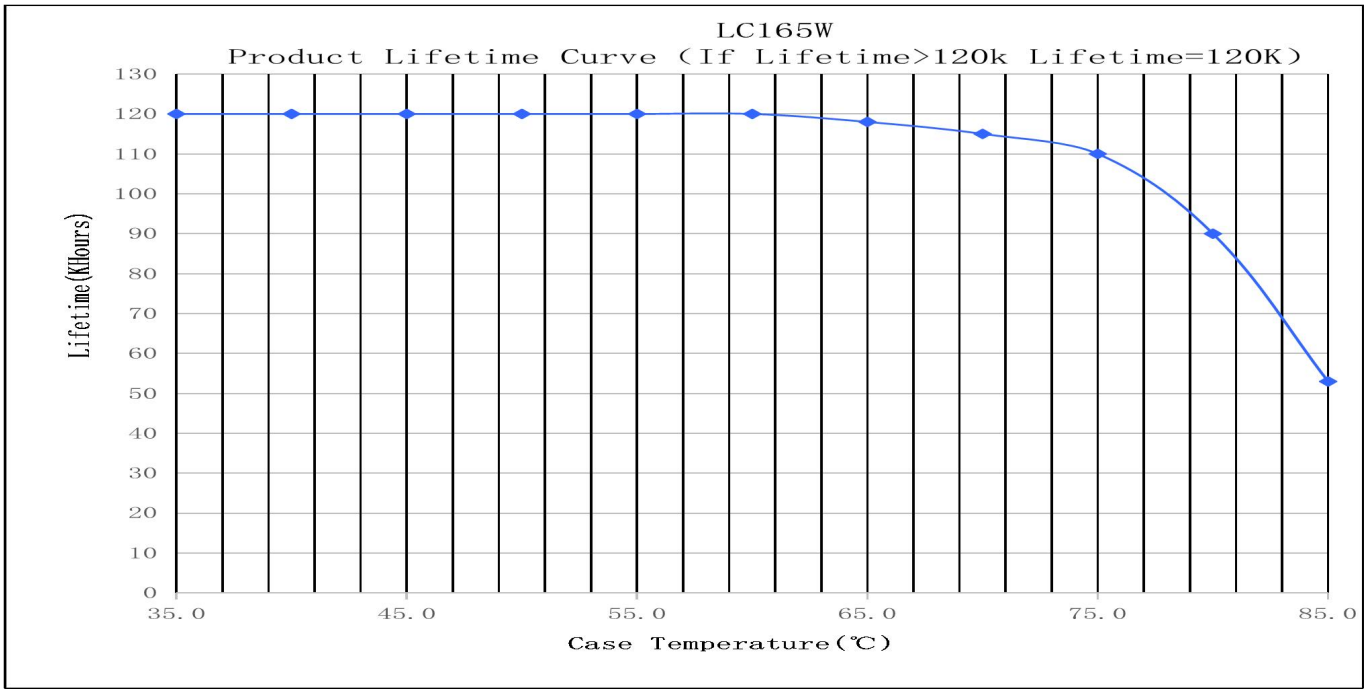
3.Connected quantities of different current Breaker

TYPE	LC165W550-700 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		10	13	16	20	25	@230VAC	60	400us
TYPE C		16	21	26	32	40			
TYPE D		26	33	41	51	64			

4.Label



5.Lifetime curve



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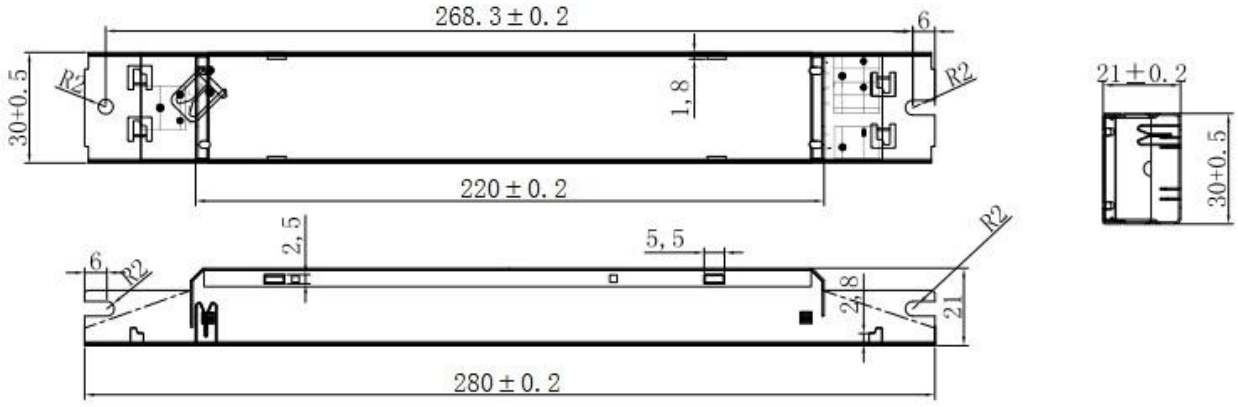
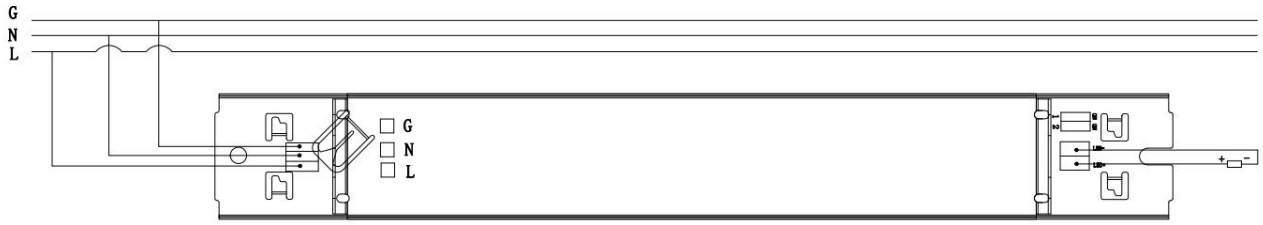
6.Dimension （Unit：mm）



7.Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
345*310*158MM	50PCS	0.255	12.75	13.2

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.)
- The lamp controlgear replies upon the luminaire enclosure for protection against accidental contact with live parts.

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10.REVISION HISTORY

DATE	REV.	REMARK
2022-10-26	V1.0	Initial release.
2022-12-14	V1.1	Update the label.
2023-10-24	V1.2	Update PF value，Update the label.

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