LC75W1100-1400

Constant Current Driver

Model:LC75W1100 -1400

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC75W1100-1400	1100mA	0.30A	65.27W	29.70-59.40W	0.95-0.98	91.0%	27-54V	68V
	1200mA	0.31A	71.20W	32.40-64.80W	0.96-0.98	91.0%	27-54V	68V
	1300mA	0.33A	77.14W	35.10-70.20W	0.96-0.99	91.0%	27-54V	68V
	1400mA	0.36A	83.07W	37.80-75.60W	0.97-0.99	91.0%	27-54V	68V

*** 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 I
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	230-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	48hrs@320VAC, 2hrs@360VAC, 5mins@380VAC
	Input Current	≤0.36A max
	Input Power	≤83.07W max
	Power Factor	≥0.99 (230VAC，full load)
	THD	≤10% (230VAC，full load)
	No-load Power Consumption	≤0.50W (230VAC，full load)
	Inrush Current	≤27A/16.8us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	7pcs/type A ;12pcs/type B ;19pcs/type C 12pcs/type A ;19pcs/type B ;30pcs/type C 14pcs/type A ;23pcs/type B ;37pcs/type C

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Output	Output Voltage	27-54VDC@1100-1400mA
	No Load Voltage (Uout)	68VDC Max.
	Output Current	1100-1400mA (Factory set current of 1100mA)
	Max. Output Power	75.6W
	Efficiency	≥91% (230VAC，full load@max current)
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	Output PstLM (at full load)	≤1
	Output SVM (at full load)	≤0.4
	Starting Time（AC mode）	≤0.5S (230VAC，full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S,1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC L/N to PE
	Leakage current	< 700μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25….+50℃
	Ts/Storage Temperature	-25….+90℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.5-1.5□ / 8-9mm
	SEC Wire preparation	0.5-1.5□ / 8-9mm
	Dimension	280*29.4*21mm (L*W*H)
Standards	Certification	CE/EL
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	Performance	EN 62384
	Surge	L-N/2KV （L/N)-PE/2.5KV
Others	RoHS	2011/65/EU
	Life Time	50000h Tc=90℃
		75000h Tc=85℃
		100000h Tc=80℃
	Warranty	5years， F.R. < 10000ppm

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.

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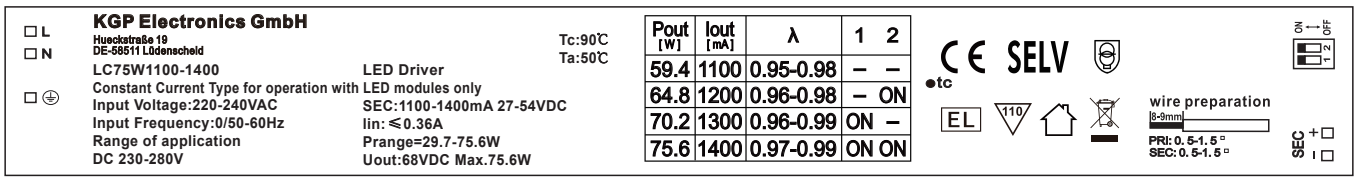
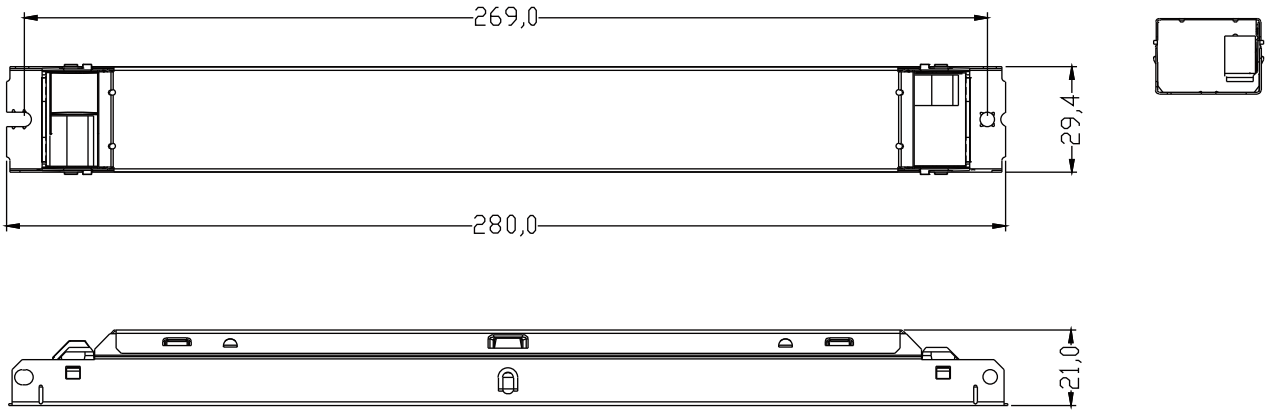
2. Label



3. Output Current Setting

Output Current	1	2
1100mA	-	-
1200mA	-	ON
1300mA	ON	-
1400mA	ON	ON

4. Dimension （Unit：mm）



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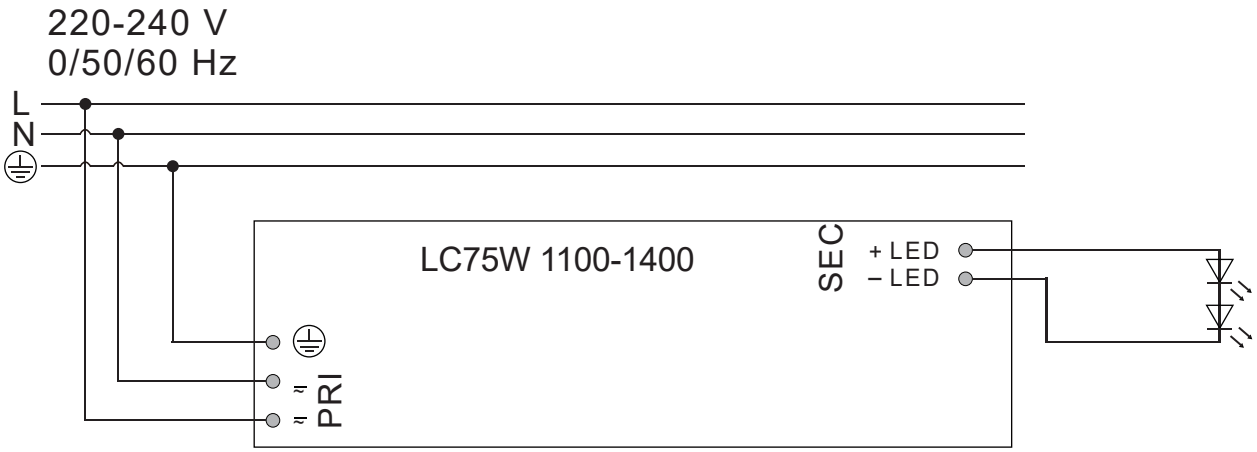
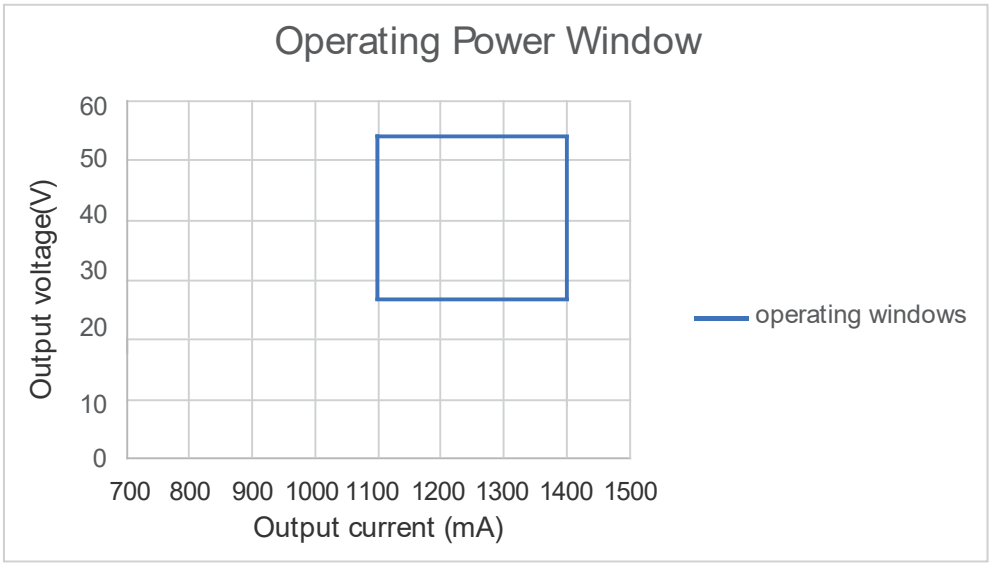
5. Installation / wiring

Circuit diagram



6. Output Power Window



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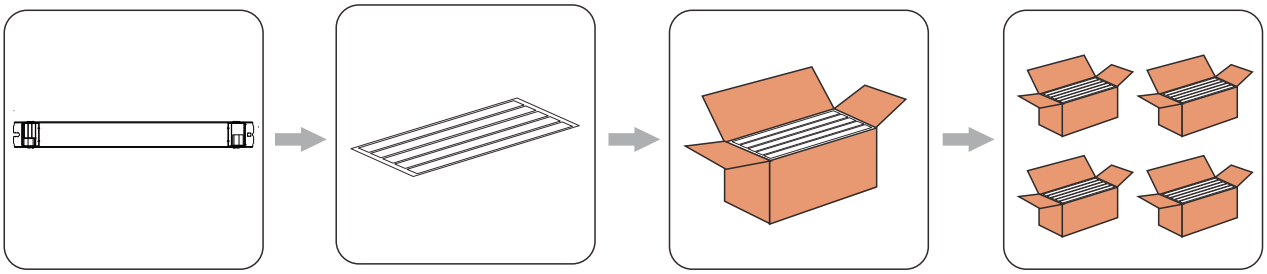
7. Packing information



Product | Plastic paper | 5 sets X 4th floor = 20 sets/box | 20sets/box*4boxs=80pcs/Carton

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
325*303*213	80	0.164	13.12	13.72

8. Remarks

8.1 Input over voltage protection:

Driver goes into shutdown mode at 295+/-10v input voltage and above. Driver will survive higher mains input up to 48hrs at 320 vac, 2hrs 360vac & 30mins 380vac. It will not destroy both the unit and the load; shut down of load will occur in this condition.

8.2 Output short circuit protection:

Short circuit current is limited to approx. Iav 0.2 A without damage to the unit, for unlimited time. Be sure the load wire is designed to withstand the short circuit current as well.

8.3 Output overload protection:

The unit is intrinsically protected against over loading because the output voltage is limited.

8.4 Output over voltage protection:

As vout increases from 54v the output current may decrease & shut down of load happens ifuout exceeds 57v; mains switchover is not needed to restart the unit.

8.5 Output under voltage operation:

The unit is not damaged if the load voltage is lower than 27v, but the load current increases up to the short circuit value. The load will go into hic-up mode for unlimited time. please make sure to replace with suitable load.

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8.6 No load operation:

the unit is not damaged in this condition; the output wattage is lower than 3wand output voltage is limited to uout 60v. Mains switchover is not needed to restart the unit after load connection if mains is already on.

8.7 Over temperature operation:

It is not recommended to operate the device above Tc temperature limit.
If tc exceed 120。C approx. the unit will go into Hic-up mode; The protection is automatically reversible when temperature comes down.

8.8 Output power hold time:

< 1s, in case of mains dips.

8.9 HoT Plug:

Connection of LED on output is allowed without damage of LED.

9. REVISION HISTORY

Date	Revision	Remark
2023.- -.- -	V0.01	- - - - - -

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