



**Constant Current Driver**  
**Model: LC150W500-700**



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC150W500-700	500mA	1.0A	175W	90-150W	0.95	90%	180-300V	360V
	700mA			89.6-149.8W			128-214V	

**\* 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	220-240VAC
	Range of AC Input Voltage	176-264VAC
	Range of DC Input Voltage	176-280VDC
	Frequency	0/ 50-60Hz
	Input Current	≤1.0A
	Input Power	≤175W
	Power Factor	≥0.95 (230VAC,full load)
	THD	≤15% (230VAC,full load)
	No-load Power Consumption	≤2W @230VAC
	Inrush Current	≤80A/100us (230VAC,full load)
Connected quantity of 16A Breaker	6pcs/type B ; 10pcs/type C @ 230Vac	
Output	Output Voltage Range	128-214V 180-300V
	No Load Voltage	360VDC Max.
	Output Current	500mA -700mA
	Max. Output Power	150W
	Efficiency	≥90%
	Current Ripple	± 5% (Imax-Imin)/(Imax+Imin)
	Current Accuracy	± 5%
	Started Delay Time	≤0.5S (230VAC, full load)
Protection	Input Over Voltage Protection	Input voltage >380Vac,Driver will stop working and Auto Recovery
	Short Circuit Protection	Auto Recovery

	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to PE @230V input
Environment	Ta/Operation Temperature	-25....+50℃
	Ts/Storage Temperature	-40....+85℃
	Tc/Enclosure Temperature	90 ℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Built in
	PRI Wire preparation	0.75-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	290*30*21mm (L*W*H)
Standards	Certification	Complied to CE
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,E N62493:2015, AS/NZS IEC61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV (L/N)-PE/2KV
Others	RoHS	Complied to 2011/65/EU
	Life Time	50000h @Ta / Tc

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.Slight noise exist when with no load. it is because of the restart of the driver when the over-voltage protection acts. Always keep well connection between the driver and luminaires before connecting to the AC source.  
 4.Select proper LEDset to set the maximum output current first, otherwise, only the minimum current is available.

## 2. Output Current Setting


Output Current	PIN1	PIN2
500mA	ON	OFF
700mA	OFF	ON
Prohibition of the use	ON	ON

### 3. Label

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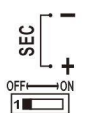
**COMPONENTS**  
LED Driver  
LC150W500-700  
Constant Current Type

PIN1	I <sub>rated</sub> [mA]	P <sub>rated</sub> [W]	U <sub>rated</sub> [V]	U <sub>N</sub> / f <sub>N</sub>	I <sub>N</sub> [A]	t <sub>c</sub> [°C]	t <sub>a</sub> [°C]	λ
OFF	500	150	180-300	220-240VAC 50/60Hz	1.0	90	-20...+50	0.95
ON	700	149.8	128-214		1.0			

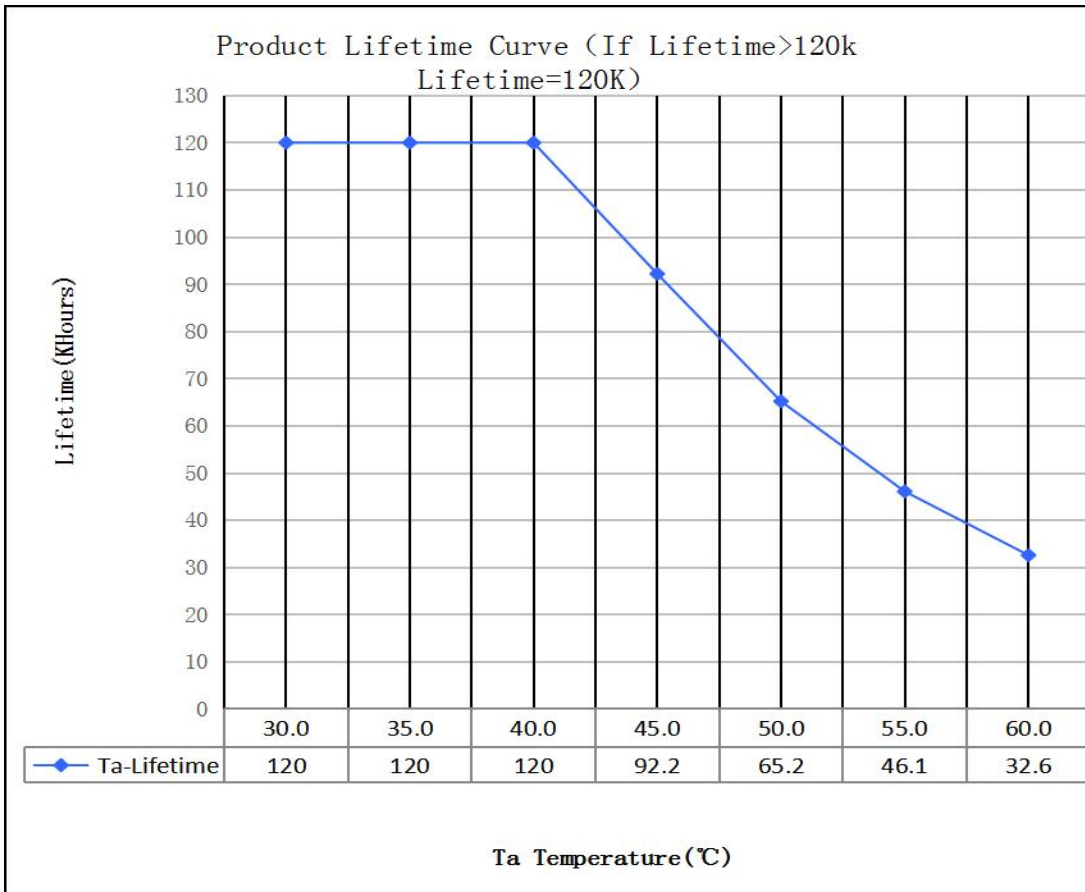
U<sub>out</sub>: Max. 360VDC      For LED modules only

wire preparation

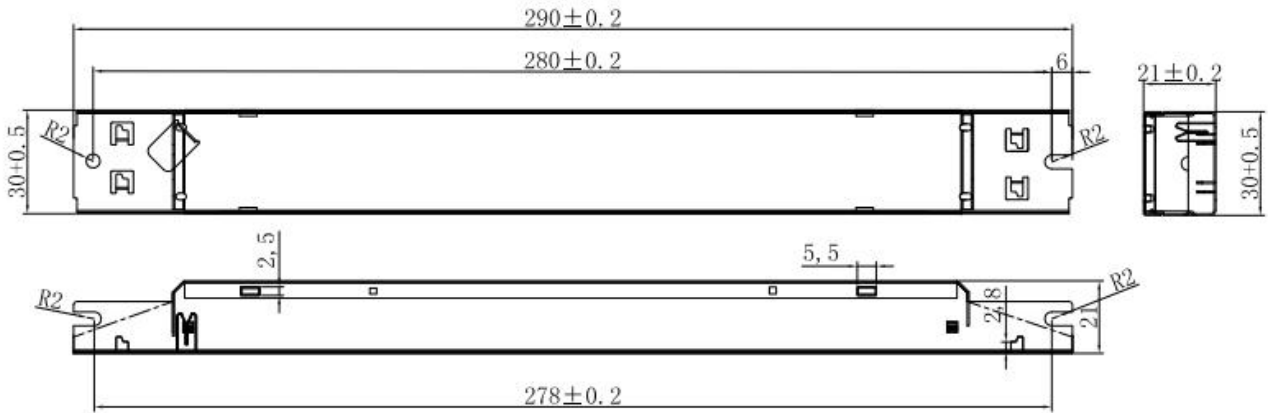
1.8mm PRI 0.75-1.5 SEC 0.5-1.5

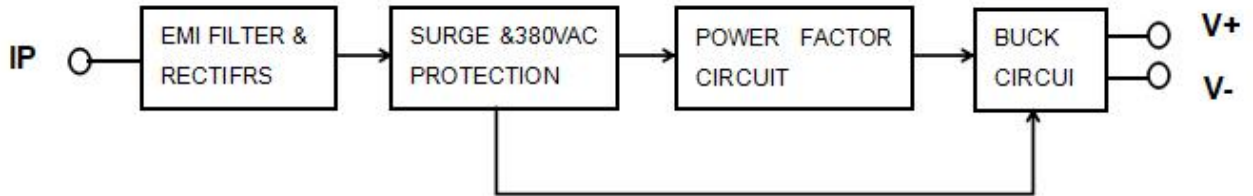
### 4. Lifetime curve



5. Dimension (Unit: mm)



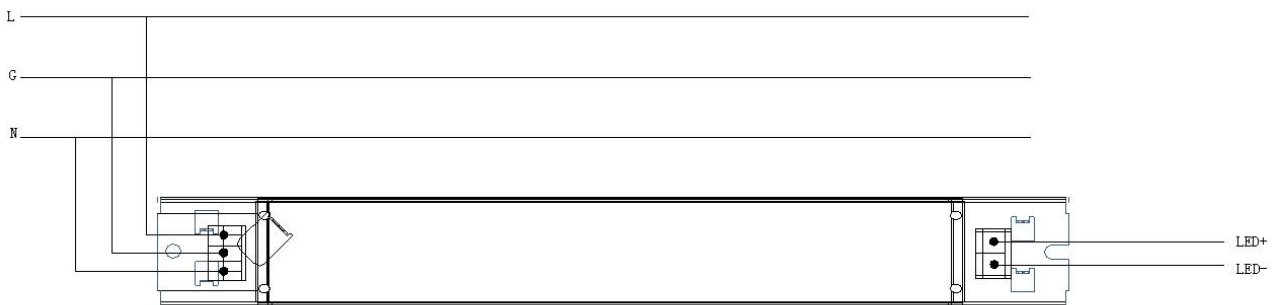
6. Block Diagram



7. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
410*270*190	35	0.255	8.925	9.485

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.)

**Fig. A: LC150W500-700**