



Constant Current Driver

Model: LC90W350-700



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
LC90W350-700	350mA	0.6A	105W	59.85-89.95W	0.95	90%	171-257V	300V
	500mA			60-90W			120-180V	
	550mA			59.95-90.2W			109-164V	
	700mA			59.5-90.3W			85-129V	

*** 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 Input Voltage	176-264VAC
	Range of DC Input Voltage	176-280VDC
	Frequency	50/60Hz
	Input Current	≤0.6A
	Input Power	≤105W
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤2W @230VAC
	Inrush Current	≤60A/100us (230VAC, full load)
	Connected quantity of 16A Breaker	8pcs/type B ;13pcs/type C
Output	Output Voltage	171-257V 120-180V 109-164V 85-129V
	No Load Voltage	300VDC Max.
	Output Current	350mA -500mA-550mA-700mA
	Max. Output Power	90W
	Efficiency	≥90%
	Current Ripple	±5% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%

	Start up 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 voltage	1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to PE @230V input
Environment	Ta/Operation Temperature	-25....+50℃
	Ts/Storage Temperature	-30....+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.75-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	250*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 IEC61347.2.13:2013, 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.

2. Output Current Setting

Output Current	PIN1	PIN2
350mA	OFF	OFF
500mA	ON	OFF
550mA	OFF	ON
700MA	ON	ON

3. Label

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COMPONENTS
LC90W350-700
 Constant Current Type

PIN1	PIN2	Irated (mA)	Prated (W)	Urange (V)	U _N /f _N	I _N (A)	t _c [°C]	t _a [°C]	λ
OFF	OFF	350	89.95	171-257	220-240VAC 50/60Hz	0.6	85	-20...+60	0.95
ON	OFF	500	90	120-180					
OFF	ON	550	90.2	109-164					
ON	ON	700	90.3	85-129					

Uout:Max.300VDC For LED modules only

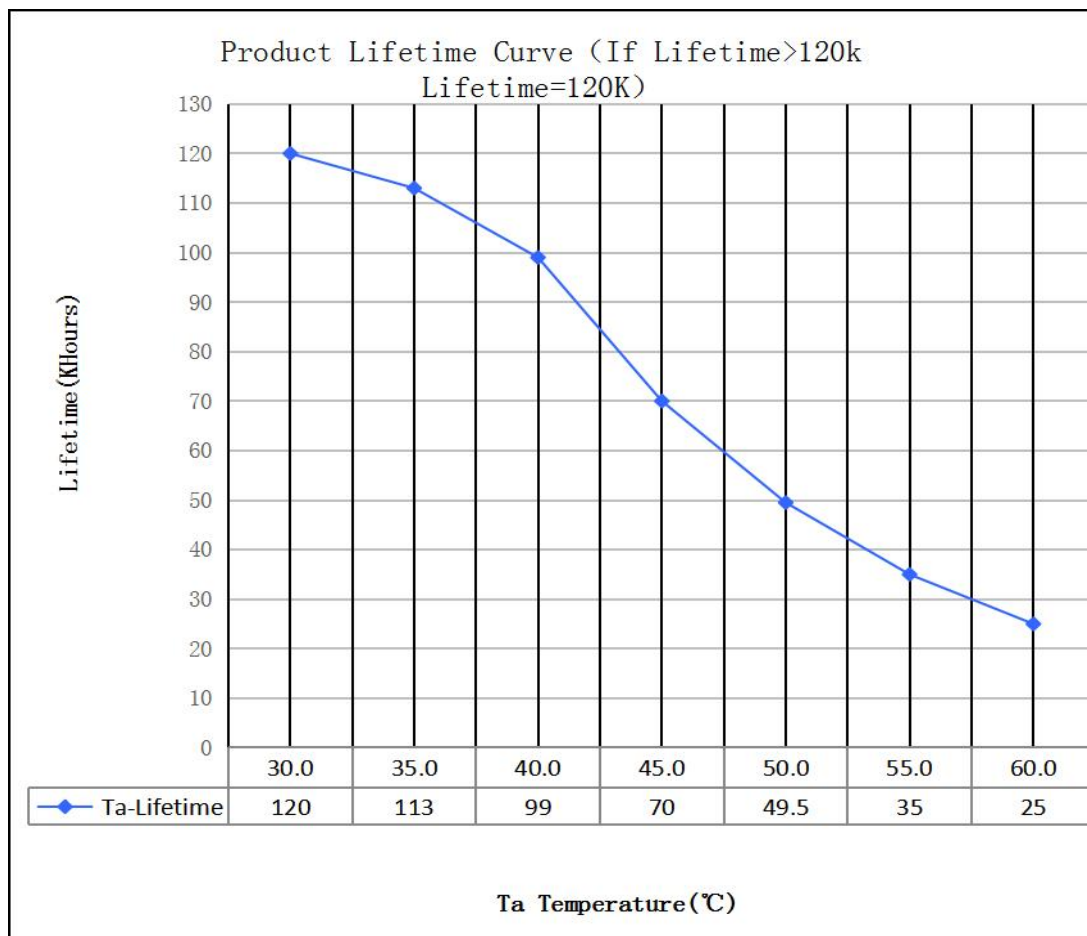



wire preparation
 5mm INPUT 0.75-1.5"
 OUTPUT 0.6-1.8"

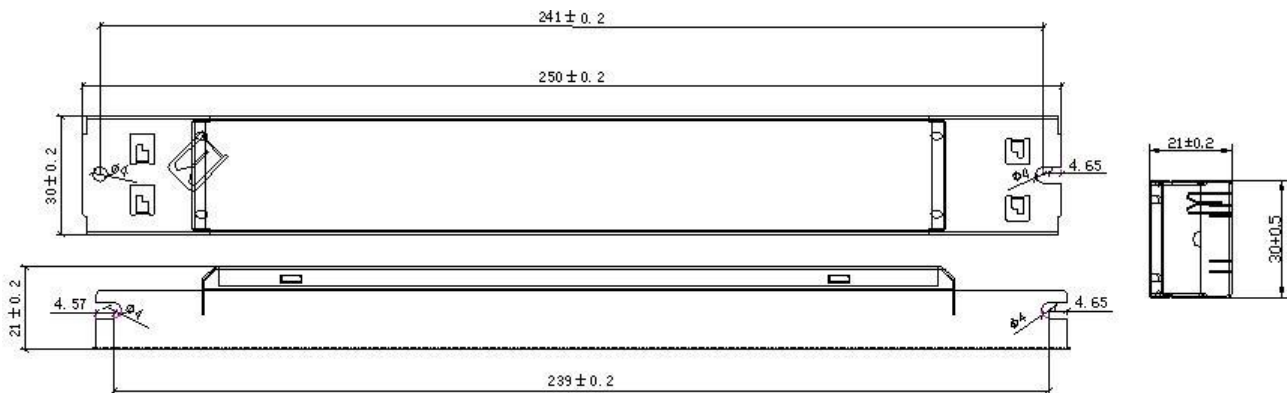



OUTPUT
 +
-
OFF ON

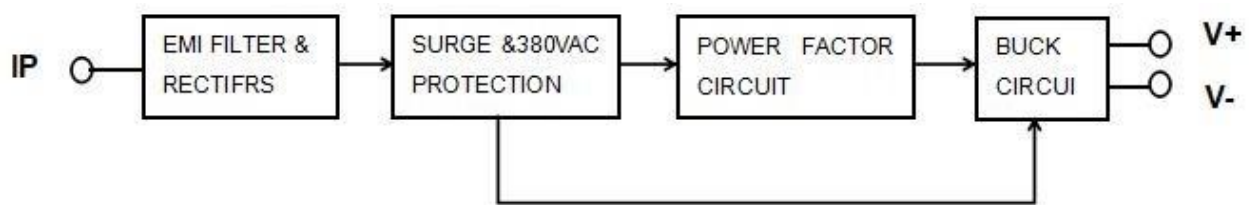
4. Lifetime curve



5. Dimension (Unit: mm)



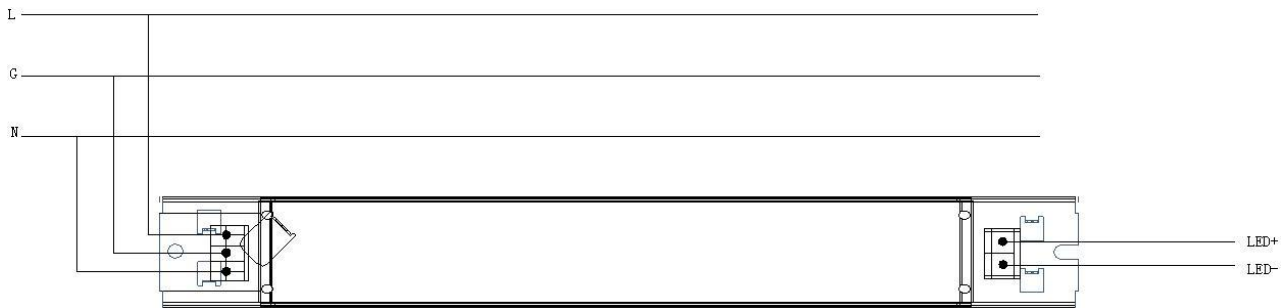
6. Block Diagram



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	60	0.23	13.8	14.36

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:LC90W350-700