LC80W350-500NS

Constant Current Driver

Model:LC80W350-500NS

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency（typical）	Output Voltage	No load Voltage
LC80W350-500NS	350mA	0.39A	87W	14-80.5W	0.95	94.0%	40-230V	250V
	400mA			16-80.0W		93.5%	40-200V	
	450mA			18-79.7W		93.0%	40-177V	
	500mA			14-80.0W		93.0%	40-160V	

*** 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 Input Voltage	198-264VAC or 198-280VDC
	Frequency	0/50-60Hz
	Input Current	≤0.39A(230VAC，full load)
	Input Power	≤87.0W(230VAC，full load)
	Power Factor	≥0.95 (230VAC, full Load)
	THD	≤15%(230VAC, full Load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤65A/150μs (230VAC，full load)
Output	Output Voltage Range	40-160V@500mA
		40-177V@450mA
		40-200V@400mA
		40-230V@350mA
	No Load Voltage	250VDC Max.
	Output Current	350-500mA
	Max. Output Power	80.5W

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	Efficiency	≥93% (230VAC，full load)
	Current Ripple(< 120 Hz)	±5%（Imax-Imin）/（Imax+Imin）
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%
	Started Delay Time	≤0.5S (230VAC，full load)
	Emergency output coefficient	1
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	/
	Over-temperature protection	Auto Recovery
	Insulation voltage	O/P to PE , 1.75KVac/1min I/P to PE , 1.75KVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P <0.7mA
Environment	Ta/Operation Temperature	-20…+55℃
	Ts/Storage Temperature	-25....+85℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Built-in
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	195*30*21mm (L*W*H)
Standards	Certification	CE、ENEC、EL、EAC、UKCA、SAA
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1 BS EN 61347-1:2015/A1:2021 BS EN 61347-2-13:2014/A1:2017 BS EN 62493:2015 BS EN IEC 62384:2020
	EMC Standards	EN IEC 55015:2019 EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 EN IEC 61547:2023
	Performance	EN62384:2020
	Surge	L-N:1KV；L/N-PE:2KV；
Others	RoHS	Complied to 2011/65/EU
	REACH	EU Regulation (EC) No 1907/2006

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	Life Time	50000h @Tc=90℃
	Warranty	5years ,F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB ,Interval≥15cm

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.

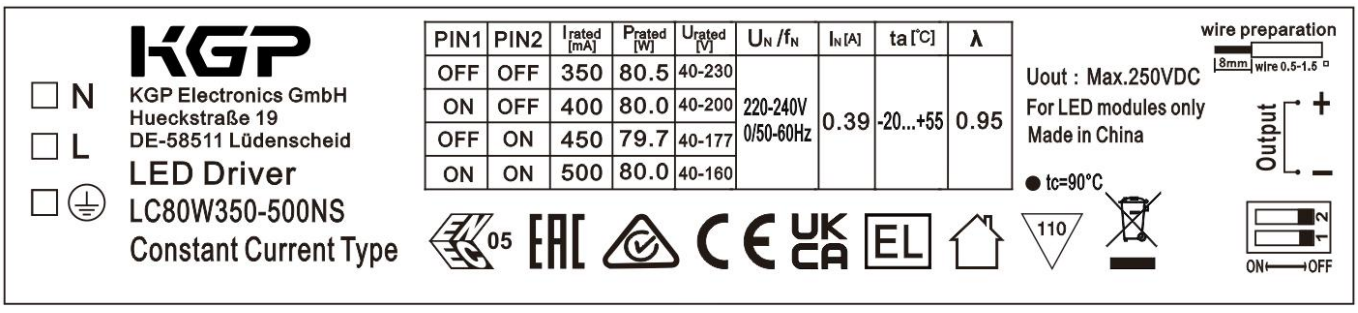
2. Output Current Setting

Output Current	Dial 1	Dial 2
500mA	ON	ON
450mA	OFF	ON
400mA	ON	OFF
350mA	OFF	OFF

3. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage（V）	Inrush Current (A)	Time (μs)
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		9	12	15	18	23	@230VAC	65	200
TYPE C		15	19	24	30	37			
TYPE D		24	31	38	47	59			

4. Label



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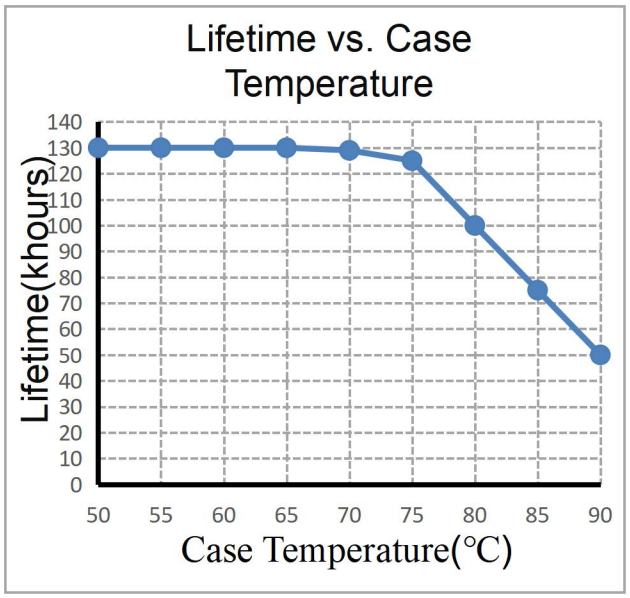
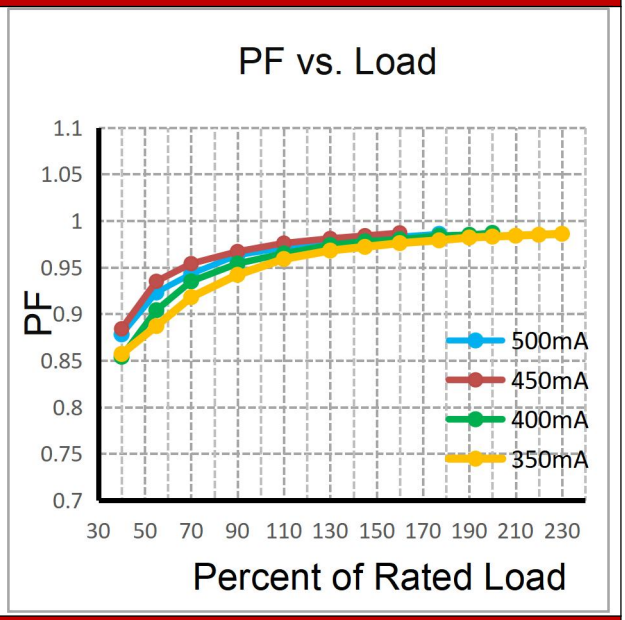
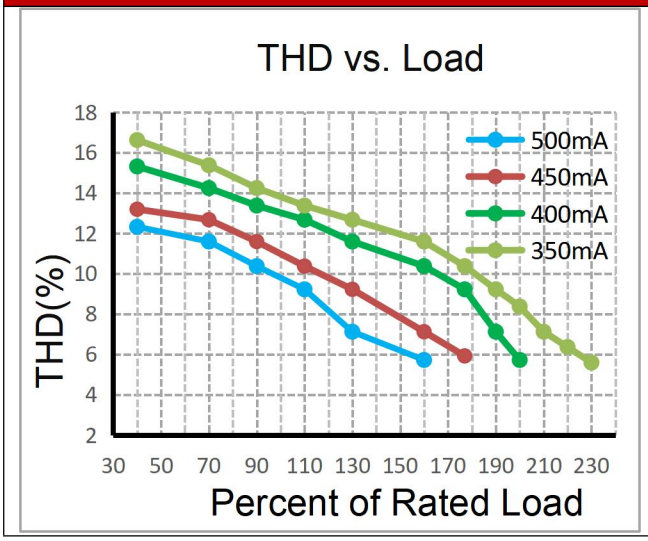
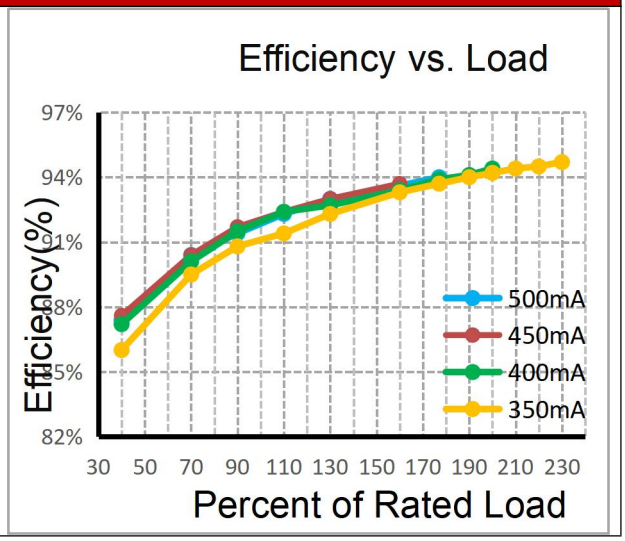
5. Electrical values

Lifetime vs. Case Temperature	PF vs. Load
	
THD vs. Load	**Efficiency vs. Load**
	

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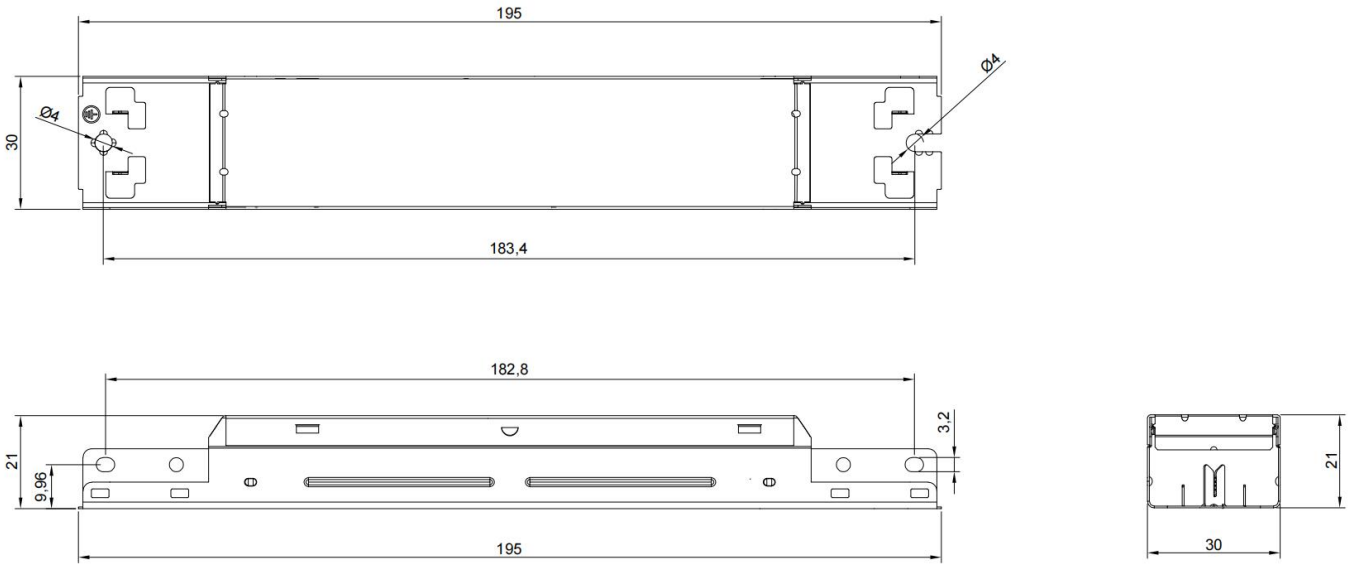
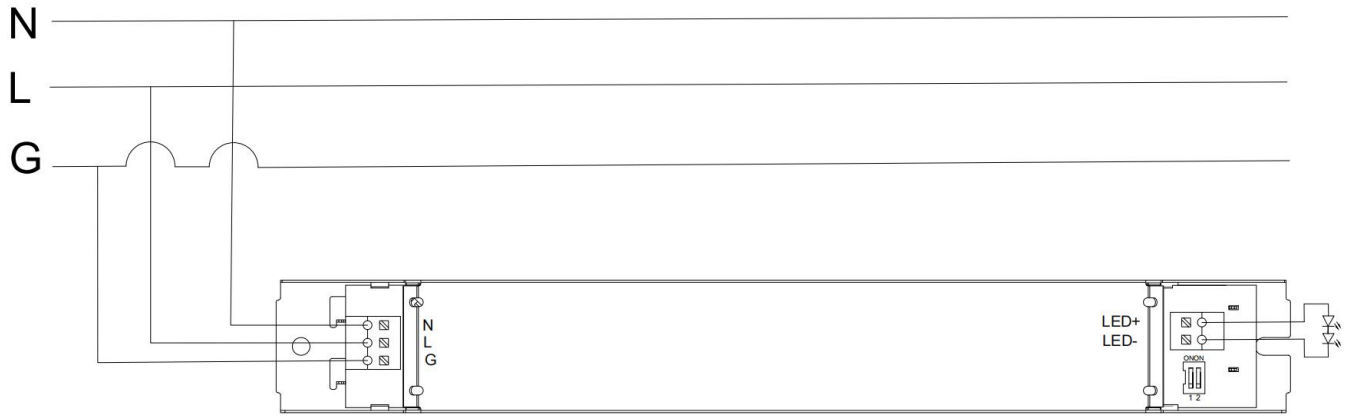
6. Dimension （Unit：mm）



7. Packing information

Packing way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
Industrial	375*245*220	85	0.127	10.80	11.25

8. Wiring Diagram



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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.

10. REVISION HISTORY

DATE	REV.	REMARK
2025-1-10	V1.0	Initial release.

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