



Constant Current Driver

Model: LC20W200-350NS DCT



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typical)	Output Voltage	No load Voltage
LC20W200-350NS DCT	200mA	0.11A	25W	5.0-21.0W	0.95	89.0%	24-105V	250V
	250mA			6.0-21.0W		88.5%	24-84V	
	300mA			7.2-21.6W		88.0%	24-72V	
	350mA			8.4-21.0W		87.5%	24-60V	

*** 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	≤0.11A(230VAC, full load)
	Input Power	≤25.0W(230VAC, full load)
	Power Factor	≥0.95 (230VAC, full Load)
	THD	≤15%(230VAC, full Load)
	No-load Power Consumption	≤0.5W @230VAC
Output	Output Voltage Range	24-60V@350mA
		24-72V@300mA
		24-84V@250mA
		24-105V@200mA
	No Load Voltage	250VDC Max.
	Output Current	200-350mA
	Max. Output Power	21.6W
	Efficiency	≥87.5% (230VAC, full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin) / (Imax+Imin)
	Inrush Current	≤25A/150us (230VAC, full load)

	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	/
	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...+65℃
	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	165*30*21mm (L*W*H)
Standards	Certification	CE、EAC
	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
	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.
3. Do not install upside down.


2. Output Current Setting

Output Current	Dial 1	Dial 2
350mA	ON	ON
300mA	OFF	ON
250mA	ON	OFF
200mA	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			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²		
TYPE B		24	31	38	48	60	@230VAC	25
TYPE C		38	50	61	77	96		
TYPE D		61	80	98	123	154		

4. Label



KGP Electronics GmbH
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DE-58511 Lüdenscheid

LED Driver


LC20W200-350NS DCT U_{out} : Max.250VDC Engineering sample
Constant Current Type For LED modules only Made in China

tc=90°C











PIN1	PIN2	I _{rated} [mA]	P _{rated} [W]	U _{rated} [V]	U _N / f _N	I _N [A]	ta [°C]	λ
OFF	OFF	200	21.0	24-105	220-240V 0/50-60Hz	0.11	-20...+65	0.95
ON	OFF	250	21.0	24-84				
OFF	ON	300	21.6	24-72				
ON	ON	350	21.0	24-60				

CCT Switch
WW ← NW → CW

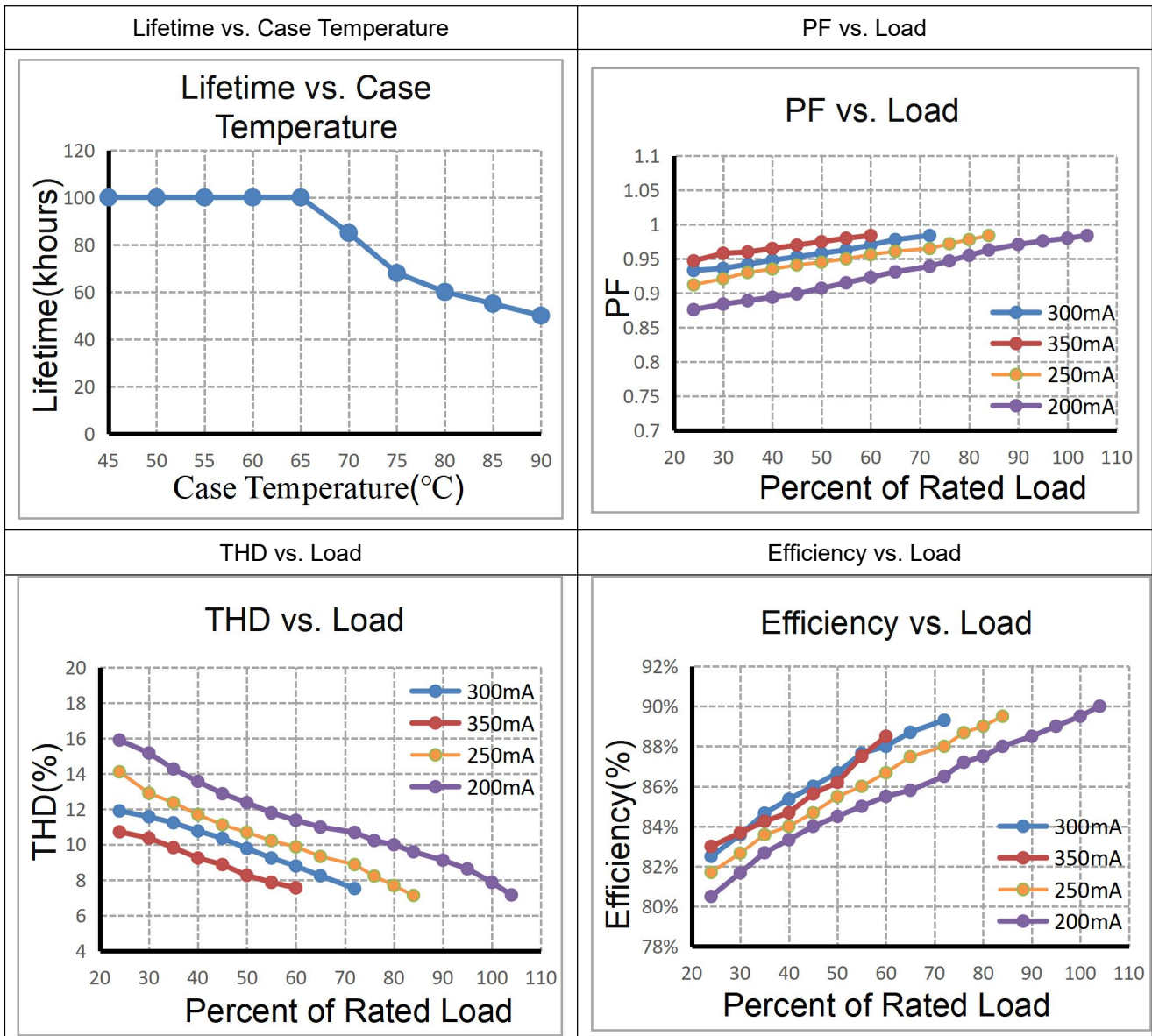
LED+ ○
WW- ○
LED+ ○
CW- ○



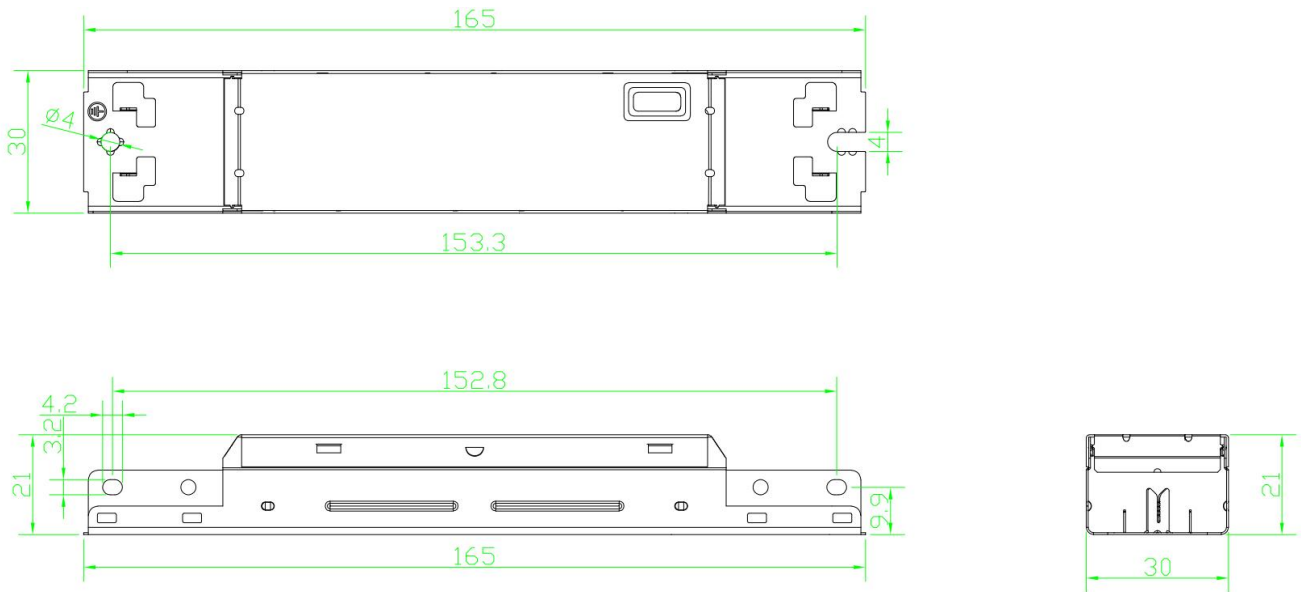
wire prep. 0.5-1.5mm² | 8-9mm

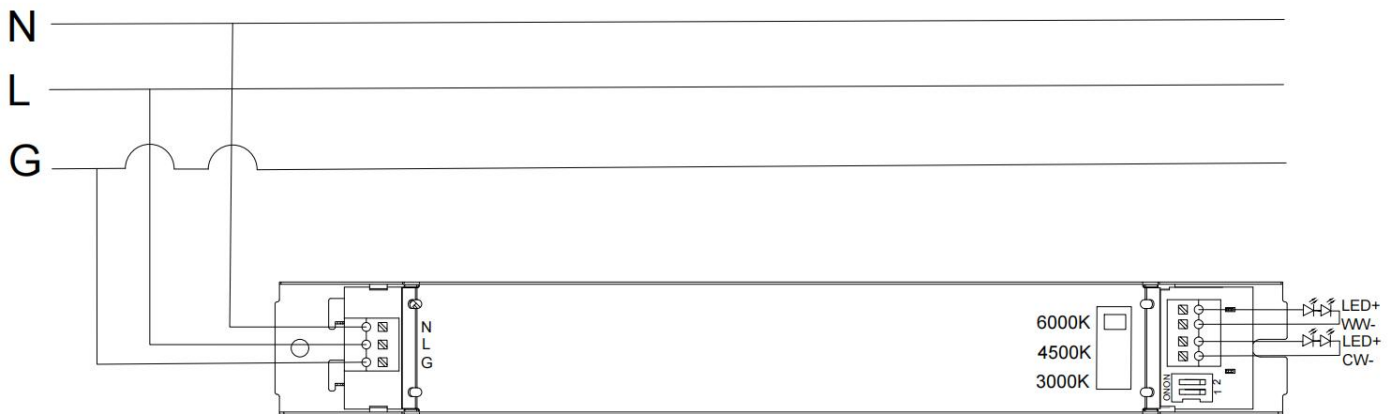
5. Electrical values



6. Dimension (Unit: mm)



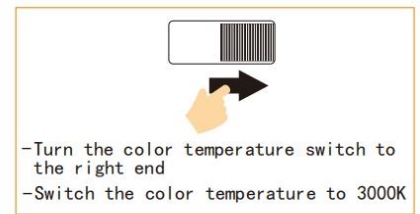
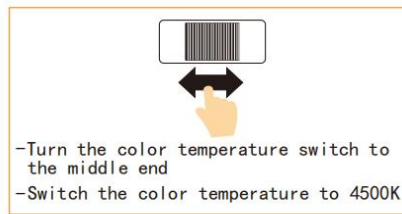
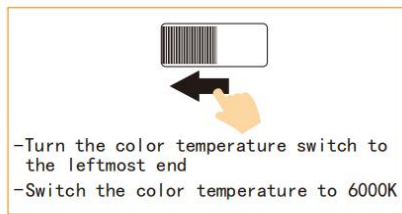
7. Wiring Diagram



8. 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	110	0.086	9.46	9.91

9. Slide the switch&Correlated Color Temperature



10. 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 relies upon the luminaire enclosure for protection against accidental contact with live parts.
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

11. Replace LED module

- Mains off
- Remove LED module
- Wait for 30 seconds
- Connect LED module again
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

12. REVISION HISTORY

DATE	REV	Modification details
2025-04-10	V1.0	Initial release.