

Constant Current Driver

Model:CC10W150-500 NFC-1



Model	Output Current (*Typical)	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC10W150-500 NFC-1	150mA	0.07A	12.5W	0.375-6.75W	0.82	80%	2.5-45V	60V
	200mA	0.07A	12.5W	0.5-9W	0.88	84%	2.5-45V	60V
	250mA	0.07A	12.5W	0.625-9W	0.88	84%	2.5-40V	60V
	300mA	0.07A	12.5W	0.75-9.9W	0.88	84%	2.5-33V	60V
	350mA	0.07A	12.5W	0.875-9.8W	0.88	84%	2.5-28V	60V
	400mA	0.07A	12.5W	1-8W	0.86	84%	2.5-20V	60V
	450mA	0.07A	12.5W	1.125-9W	0.88	84%	2.5-20V	60V
	500mA	0.07A	12.5W	1.25-10W	0.88	84%	2.5-20V	60V

* Test result @230V, 50Hz, Full Load. Current setting @ 1mA-steps (NFC)

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Near field communication (NFC)
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	50/60Hz
	Input Current	≤0.07A (230VAC, full load)
	Input Power	≤12.5W (230VAC, full load)
	Power Factor	≥0.88 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	Standby power(dim to off)	≤0.5W @230VAC
Output	Output Voltage Range	2.5-45VDC@150-200mA
		2.5-40VDC@250mA
		2.5-33VDC@300mA

		2.5-28VDC@350mA
		2.5-20VDC@400-500mA
	No Load Voltage	60VDC Max.
	Output Current	150mA -500mA
	Max. Output Power	10W
	Efficiency	≥84% (230VAC, full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
Started Delay Time	≤0.5S(230VAC, full load)	
Control Method	NFC current setting	The output current can be set within the total value range in 1-mA-steps. Output current is mean value. Setting is by KGP's software APP/APK/PC with FEIG equipment or mobile phone.
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250µA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-20....+50°C
	Ts/Storage Temperature	-20....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Direct Lead
	Installation	Built in
	Dimension	64.5*40*23mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN 62493:2015
	EMC Standards EMC	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
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @Ta
	Warranty	5years ,F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB ,

		Interval≥15cm
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Remark:

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	Time
	current (A)	10	13	16	20	25			
	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	200US	
TYPE C	38	50	61	77	96				
TYPE D	61	80	98	123	154				

3. Label






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SEC


LED Driver
CC10W150-500 NFC-1
For LED modules only
Un=220-240VAC Uout=2.5-45VDC
In=0.07A Max. Iout=150-500mA const
fn=50/60Hz Pout=10W Max.
PF≥0.88C No load=60VDC Max.
ta=50°C tc=80°C

(((NFC ←



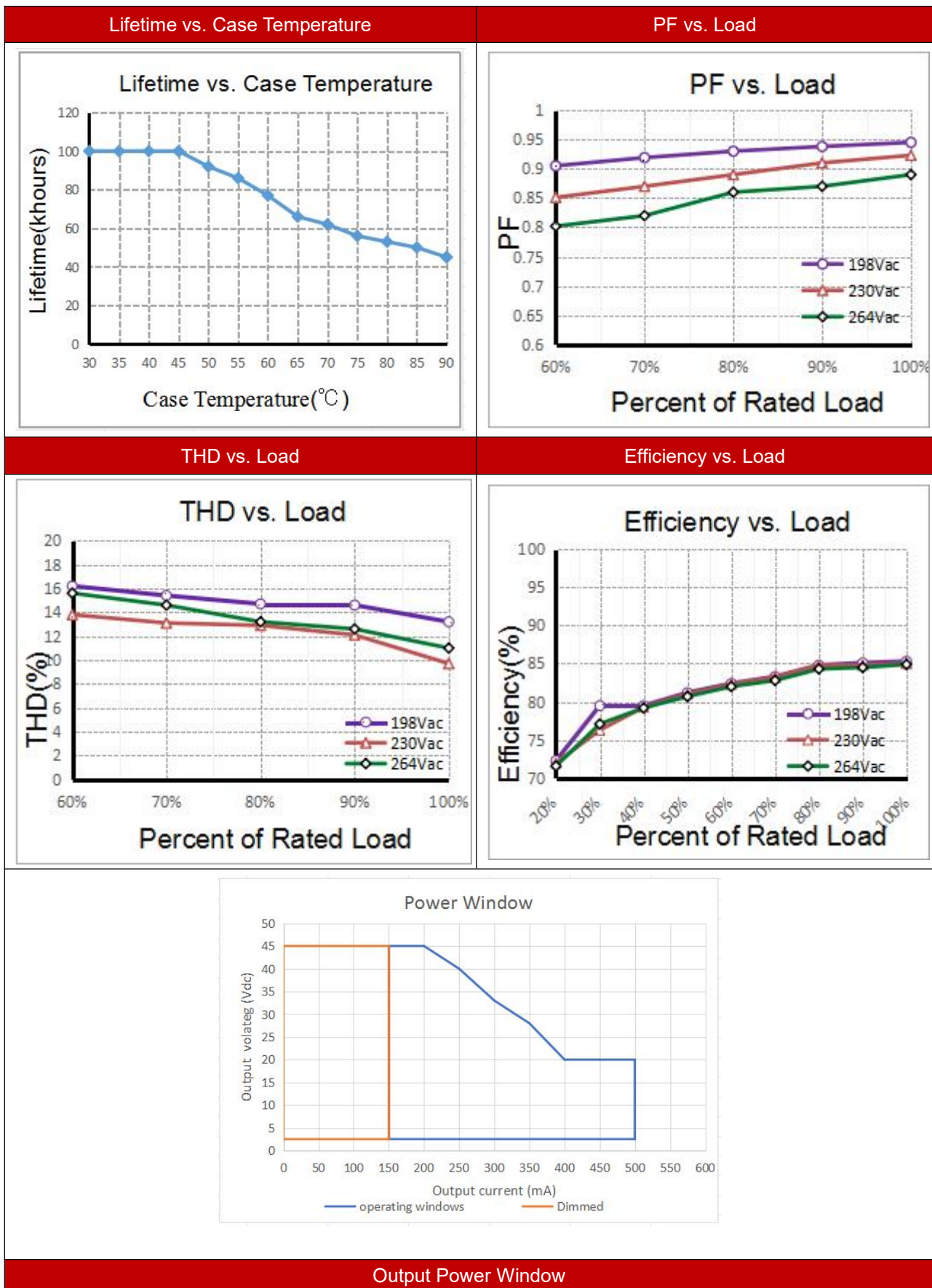
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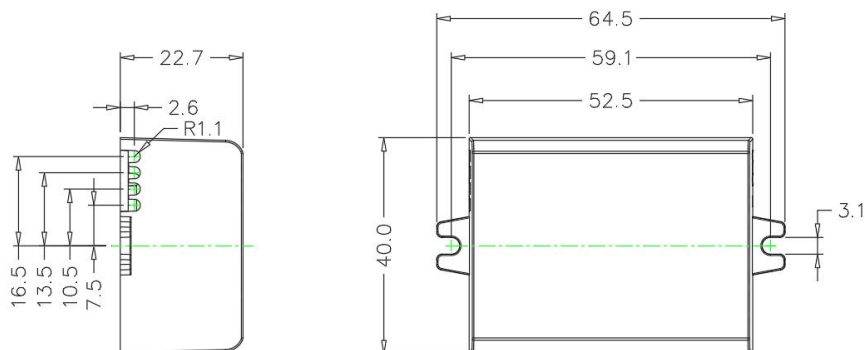
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4. Electrical values



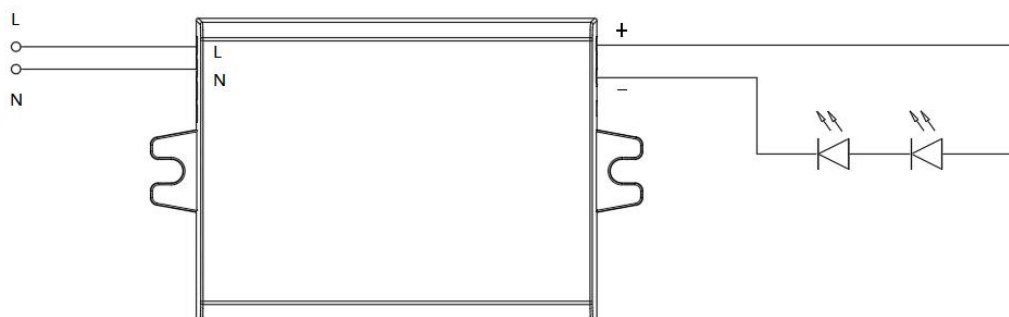
5. Dimension



6. Packing information

Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	CC10W150-500 NFC-1	White	L420*W280*H210	160	0.062	9.92	10.92

7. Wiring Diagram



8. 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)
- Advise 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.)
- 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.

9. REVISION HISTORY

DATE	REV	Modification details
2024-08-27	V1.0	Initial release.