

Constant Current Driver

Model: CC36W150-900CG NFC



| Model | Output Current | Input Current | Input Power | Output Power Range | PF | Efficiency (*Typical) | Output Voltage | No load Voltage |
|-----------------------|----------------|---------------|-------------|--------------------|------|-----------------------|----------------|-----------------|
| CC36W150-900CG NFC | 150mA | 0.055A | 9.52W | 0.37-7.5W | 0.76 | 79% | 2.5-50V | 65V |
| | 200mA | 0.063A | 12.05W | 0.5-10W | 0.83 | 82% | 2.5-50V | 65V |
| | 250mA | 0.075A | 14.96W | 0.62-12.5W | 0.87 | 83% | 2.5-50V | 65V |
| | 300mA | 0.086A | 17.67W | 0.75-15.0W | 0.89 | 84% | 2.5-50V | 65V |
| | 350mA | 0.098A | 20.37W | 0.87-17.5W | 0.91 | 85% | 2.5-50V | 65V |
| | 400mA | 0.108A | 22.99W | 1.0-20.0W | 0.94 | 86% | 2.5-50V | 65V |
| | 450mA | 0.120A | 25.83W | 1.1-22.5W | 0.94 | 86% | 2.5-50V | 65V |
| | 500mA | 0.132A | 28.69W | 1.2-25W | 0.95 | 86% | 2.5-50V | 65V |
| | 550mA | 0.143A | 31.36W | 1.3-27.5W | 0.96 | 87% | 2.5-50V | 65V |
| | 600mA | 0.154A | 34.08W | 1.5-30W | 0.96 | 87% | 2.5-50V | 65V |
| | 650mA | 0.166A | 36.92W | 1.6-32.5W | 0.97 | 87% | 2.5-50V | 65V |
| | 700mA | 0.178A | 39.69W | 1.7-35W | 0.97 | 87% | 2.5-50V | 65V |
| | 750mA | 0.183A | 40.96W | 1.8-36W | 0.97 | 88% | 2.5-48V | 65V |
| | 800mA | 0.192A | 43.13W | 2.0-36W | 0.97 | 88% | 2.5-45V | 65V |
| | 850mA | 0.186A | 41.57W | 2.1-35.7W | 0.98 | 88% | 2.5-42V | 65V |
| 900mA | 0.193A | 43.24W | 2.2-36W | 0.97 | 88% | 2.5-40V | 65V | |

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

1. Parameters

| Category | Item | Technical Norm |
|----------|---------------------------|--------------------------------|
| Features | Output Type | Constant Current |
| | Current Setting | 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 |
| | Range of DC Input Voltage | 180-280VDC |
| | Frequency | 0/50/60Hz |
| | Input Current | ≤0.25A max |

| | | |
|----------------|-------------------------------------|---|
| | Input Power | ≤42W max |
| | Power Factor | ≥0.95 (230VAC , full load) |
| | THD | ≤10% (230VAC , full load) |
| | No-load Power Consumption | ≤0.5W (230VAC , DIM to off) |
| | Inrush Current | ≤40A/15us (230VAC, full load) |
| Output | Output Voltage | 2.5-50VDC@150-700mA ; 2.5-48VDC@701-750mA ; 2.5-45VDC@751-800mA ; 2.5-42VDC@801-850mA ; 2.5-39VDC@ 851-900mA。 |
| | No Load Voltage (Uout) | 65VDC Max. |
| | Output Current | 150-900mA (by NFC setting) |
| | Max. Output Power | 36W |
| | Efficiency | ≥88% (230VAC , full load@max current) |
| | Output LF current ripple (< 120 Hz) | ±5% (Imax-Imin) / (Imax+Imin) (230VAC@full load) |
| | Current Accuracy | ±5% @ 301-900mA, ±10%@ 150-300mA |
| | Output PstLM (at full load) | ≤ 1 |
| | Output SVM (at full load) | ≤0.4 |
| | Starting Time | ≤0.5S |
| Control Method | Current Interface | Near field communication (NFC) |
| | NFC current setting | 1mA-steps (NFC) |
| Protection | Short Circuit Protection | Auto Recovery |
| | Overload Protection | Auto Recovery (not be hot swap) |
| | No-load Protection | Auto Recovery |
| | Insulation voltage | 3000V 5mA 60S between P-S |
| | Insulation resistance | >100M ohm @ 500VDC |
| | Leakage current | I/P to O/P <0.7mA |
| Environment | Ta/Operation Temperature | -25+50°C |
| | Ts/Storage Temperature | -25+85°C |
| | Tc/Enclosure Temperature | 90°C |
| | Humidity | 10%.... 90%RH |
| | Atmosphere | 86- 108KPa |
| Construction | Connection Method | Push-in Terminal |
| | Installation | Built-in & Independent |
| | PRI Wire preparation | 0.75- 1.5 [□] / 8mm |
| | SEC Wire preparation | 0.5- 1.5 [□] / 8mm |
| | Dimension | Independent: 163.7*31*21.5mm (L*W*H) Built-in: 143.3*31*21.5mm (L*W*H) |
| Standards | Certification | ENEC CE SAA EAC EL |
| | Safety Standards | EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN 62493:2015/A1:2022 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1 |
| | 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 |
| | RED | EN 300 330 V2.1.1:2017 EN 301 489-1 V2.2.3:2019 EN 301 489-3 V2.3.2:2023 EN 62479:2010 EN 50663:2017 |
| | Performance | EN 62384 |
| | Surge | L-N:2kV |
| Others | RoHS | 2011/65/EU |
| | Audible Noise | <20dB @ 30cm distance, 16dB background |
| | Life Time | 50000h @Ta=50°C |
| | Warranty | 5years , F.R. < 10000ppm |

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.
- 3.Do not install upside down.

2. 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 | 1.5mm ² | 2.5mm ² | 2.5mm ² | 4mm ² | 4mm ² | | | |
| TYPE B | 15 | 20 | 24 | 30 | 38 | @230VAC | 40 | 15 | |
| TYPE C | 24 | 31 | 38 | 48 | 60 | | | | |
| TYPE D | 38 | 50 | 61 | 77 | 96 | | | | |

3. Label

KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

■ N PRI
■ L II

Un=220-240V ~
IN= 0.2A Max.
fn= 0/50/60Hz
PF≥0.95
ta:-25...50°C

LED Driver
CC36W150-900CG NFC
Constant Current Type for LED only

Iout= 150-900mA
Uout= 2.5-50VDC
Pout= 36W Max.
No load= 65VDC Max.
Current Setting by NFC, step 1 mA

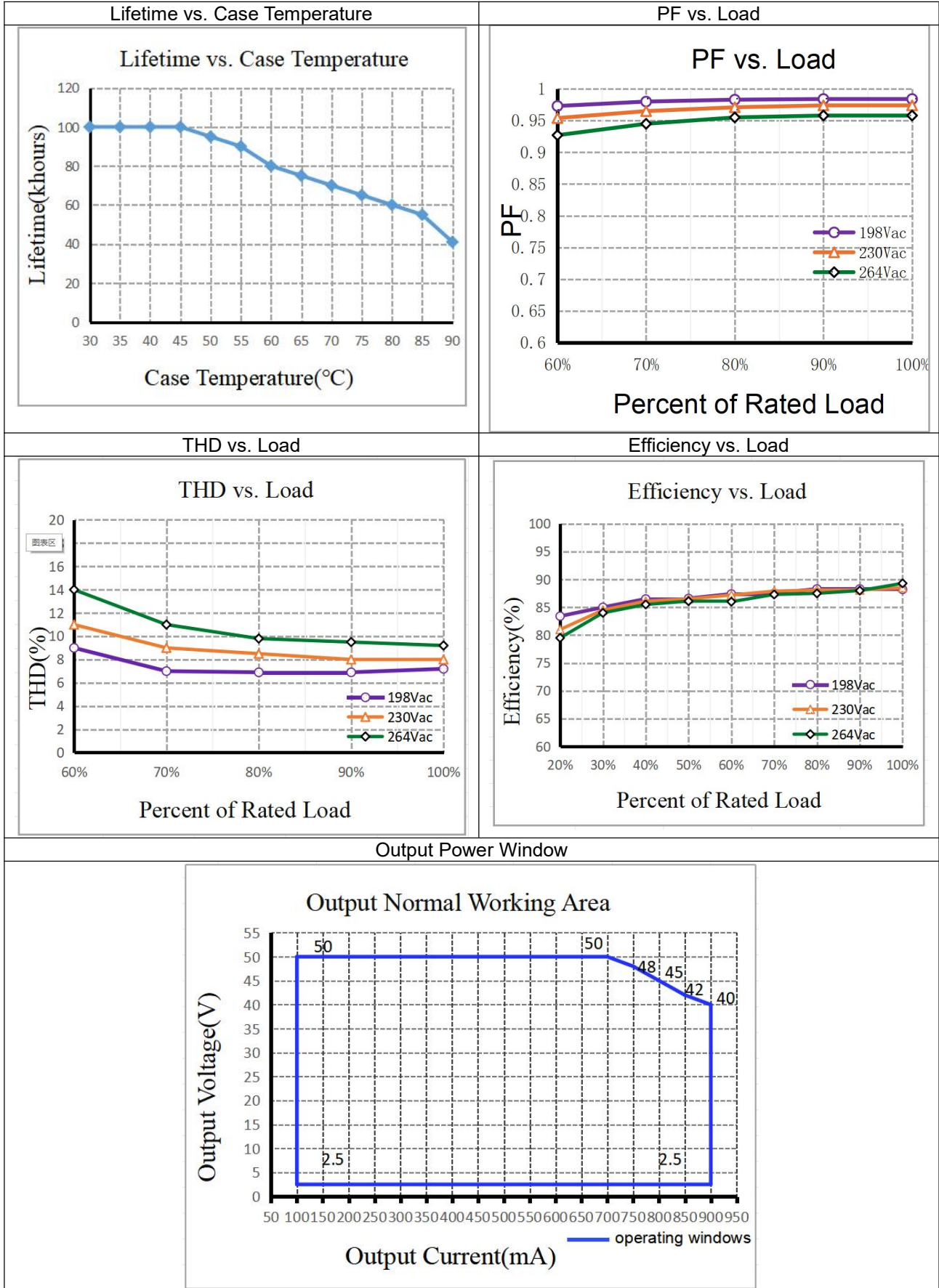
●tc:90°C

wire preparation
8mm

PRI:0.75-1.5²
SEC:0.5-1.5²

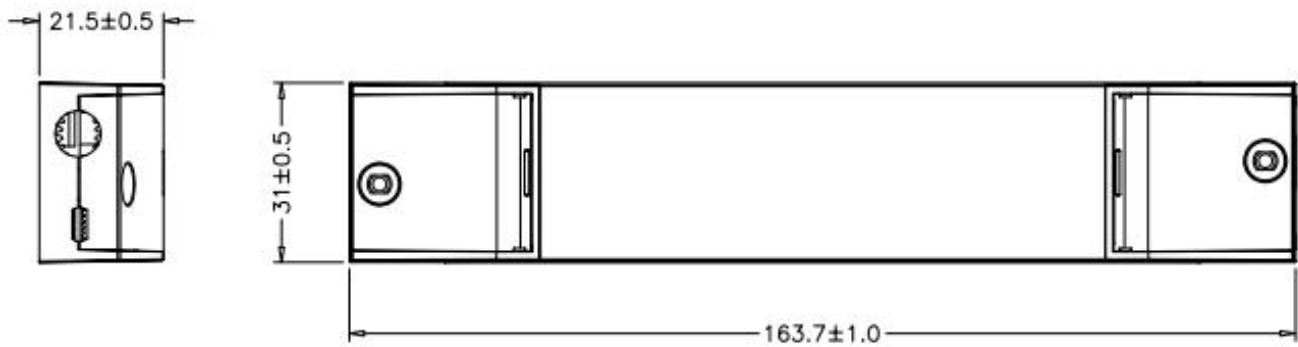
ELC SELV

4. Electrical values

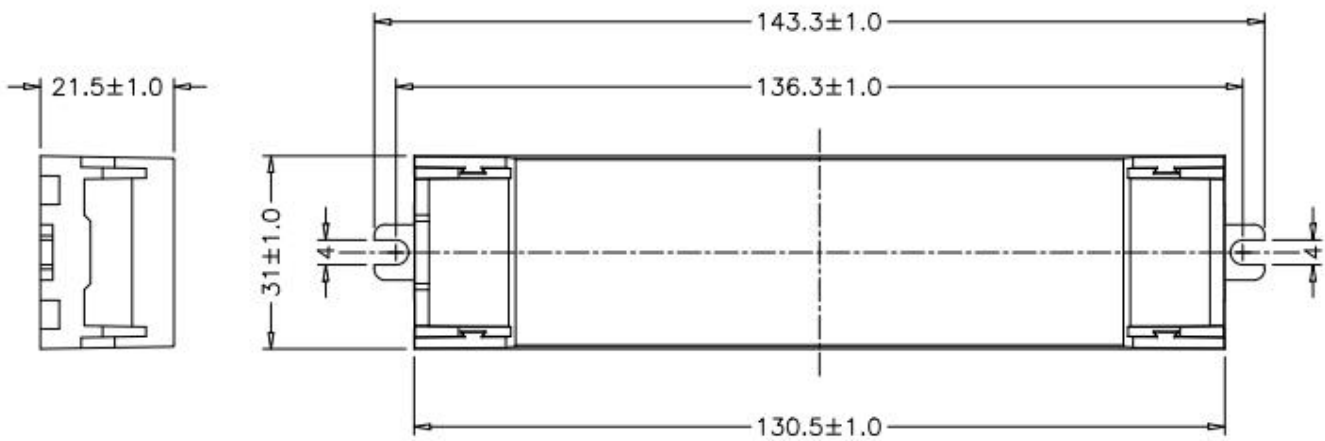


5. Dimension (Unit: mm)

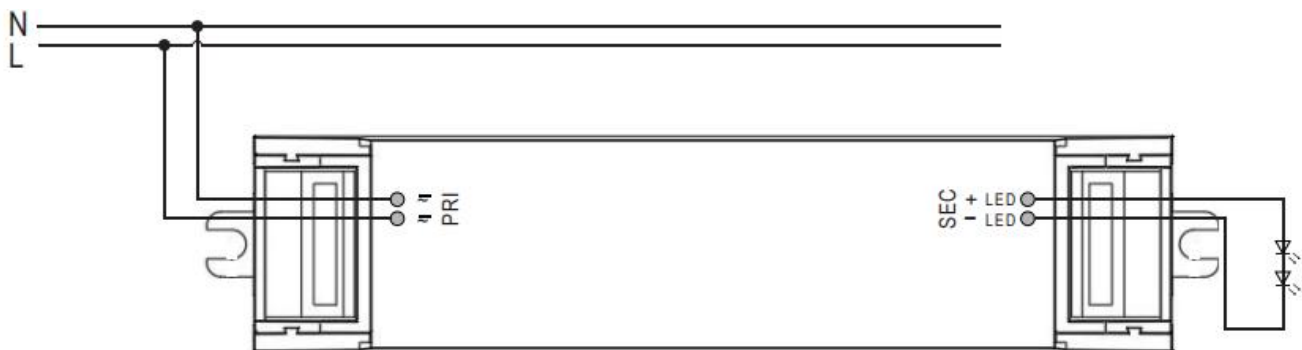
Independent type :



Built in type:



6. Wiring Diagram



7. Packing information

| Packing way | Model | Carton L*W*H(mm) | Pcs/ Carton | Net weight/ Pcs(kg) | Net weight/ Carton(kg) | Gross weight/ Carton(kg) |
|---|-----------------------|---------------------|----------------|---------------------------|------------------------------|--------------------------------|
| Built in (without white box and manual) | CC36W150-900 NFC | 275*170*235 | 80 | 0.115 | 9.2 | 10 |
| Independent (without white box and manual) | CC36W150-900CG NFC | 370*185*245 | 100 | 0.129 | 12.9 | 13.46 |

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)
- 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.)
- 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).

9. 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

10. REVISION HISTORY

| DATE | VER | REMARK |
|------------|------|-----------------------|
| 2024-05-29 | V1.0 | Initial release |
| 2025-11-06 | V1.1 | Update product labels |
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