



| Model          | Output Current | Input Current | Input Power | Output Power Range | PF   | Efficiency ( typical ) | Output Voltage | No load Voltage |
|----------------|----------------|---------------|-------------|--------------------|------|------------------------|----------------|-----------------|
| LC20W200-350NS | 200mA          | 0.12A         | 25W         | 5.0-21.0W          | 0.95 | 89.5%                  | 24-105V        | 250V            |
|                | 250mA          |               |             | 6.0-21.0W          |      | 89.0%                  | 24-84V         |                 |
|                | 300mA          |               |             | 7.2-21.6W          |      | 88.5%                  | 24-72V         |                 |
|                | 350mA          |               |             | 8.4-21.0W          |      | 88.0%                  | 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                     |
|            | Power Factor                 | ≥0.95 (230VAC, full Load)     |
|            | THD                          | ≤15%(230VAC, full Load)       |
|            | No-load Power Consumption    | ≤0.5W @230VAC                 |
| Output     | Current Accuracy             | ±5%                           |
|            | Max. Output Voltage          | 250V                          |
|            | Started Delay Time           | ≤0.5S (230VAC, full load)     |
|            | Current Ripple(< 120 Hz)     | ±5% (Imax-Imin) / (Imax+Imin) |
|            | PstLM                        | ≤1                            |
|            | SVM                          | ≤0.4                          |
|            | 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...+65℃                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                         | Ts/Storage Temperature      | -30....+85℃                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                         | Tc/Enclosure Temperature    | 90℃                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                         | Humidity                    | 10%....90%RH                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                         | Atmosphere                  | 86-108KPa                                                                                                                                                                                                                                       |
| Construction                                                                                                                                                                                                                                            | Connection Method           | Push-in Terminal                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                         | Installation                | Built-in                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                         | PRI Wire preparation        | 0.75-1.5□                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                         | SEC Wire preparation        | 0.5-1.5□                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                         | Dimension                   | 165*30*21mm (L*W*H)                                                                                                                                                                                                                             |
| Standards                                                                                                                                                                                                                                               | Certification               | CCC、CE、ENEC、EAC、UKCA、SAA                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                         | Safety Standards            | EN 61347-1:2015/A1:2021<br>EN 61347-2-13:2014/A1:2017<br>EN IEC 62384:2020 EN 62493:2015<br>AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1<br>BS EN 61347-1:2015/A1:2021<br>BS EN 61347-2-13:2014/A1:2017 BS EN 62493:2015<br>BS EN IEC 62384:2020 |
|                                                                                                                                                                                                                                                         | EMC Standards               | EN IEC 55015:2019<br>EN IEC 55015:2019/A11:2020<br>EN IEC 61000-3-2:2019/A1:2021<br>EN 61000-3-3:2013/A2:2021 EN 61547:2009                                                                                                                     |
|                                                                                                                                                                                                                                                         | Performance                 | EN62384:2020                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                         | Surge                       | L-N:1KV; L/N-PE:2KV;                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                         | Others                      |                                                                                                                                                                                                                                                 |
| Others                                                                                                                                                                                                                                                  | RoHS                        | Complied to 2011/65/EU                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                         | Life Time                   | 50000h @Tc=90℃                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                         | Warranty                    | 5years                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                         | Noise                       | ≤ 24dB @Background noise ≤18dB ,Interval≥15cm                                                                                                                                                                                                   |
| Remark:<br>1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.<br>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 |
|----------------|--------|--------|
| 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 | Inrush Current | Time  |
|--------|---------------------------------------------------|--------------------|--------------------|--------------------|------------------|------------------|---------------|----------------|-------|
|        | current (A)                                       | 10                 | 13                 | 16                 | 20               | 25               |               |                |       |
|        | Installation wire diameter                        | 1.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 2.5mm <sup>2</sup> | 4mm <sup>2</sup> | 4mm <sup>2</sup> |               |                |       |
| TYPE B |                                                   | 24                 | 31                 | 38                 | 48               | 60               | @230VAC       | 25             | 150μs |
| TYPE C |                                                   | 38                 | 50                 | 61                 | 77               | 96               |               |                |       |
| TYPE D |                                                   | 61                 | 80                 | 98                 | 123              | 154              |               |                |       |

### 4. Label

**KGP**

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DE-58511 Lüdenscheid

☐ N  
☐ L  
☐

**LED Driver**

**LC20W200-350NS** U<sub>out</sub> : Max.250VDC

Constant Current Type For LED modules only Made in China

| PIN1 | PIN2 | I <sub>rated</sub> [mA] | P <sub>rated</sub> [W] | U <sub>rated</sub> [V] | U <sub>N</sub> / f <sub>N</sub> | I <sub>N</sub> [A] | ta [°C]   | λ    |
|------|------|-------------------------|------------------------|------------------------|---------------------------------|--------------------|-----------|------|
| OFF  | OFF  | 200                     | 21.0                   | 24-105                 | 220-240V<br>0/50-60Hz           | 0.12               | -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                  |                                 |                    |           |      |

wire preparation

8mm wire 0.5-1.5

Output

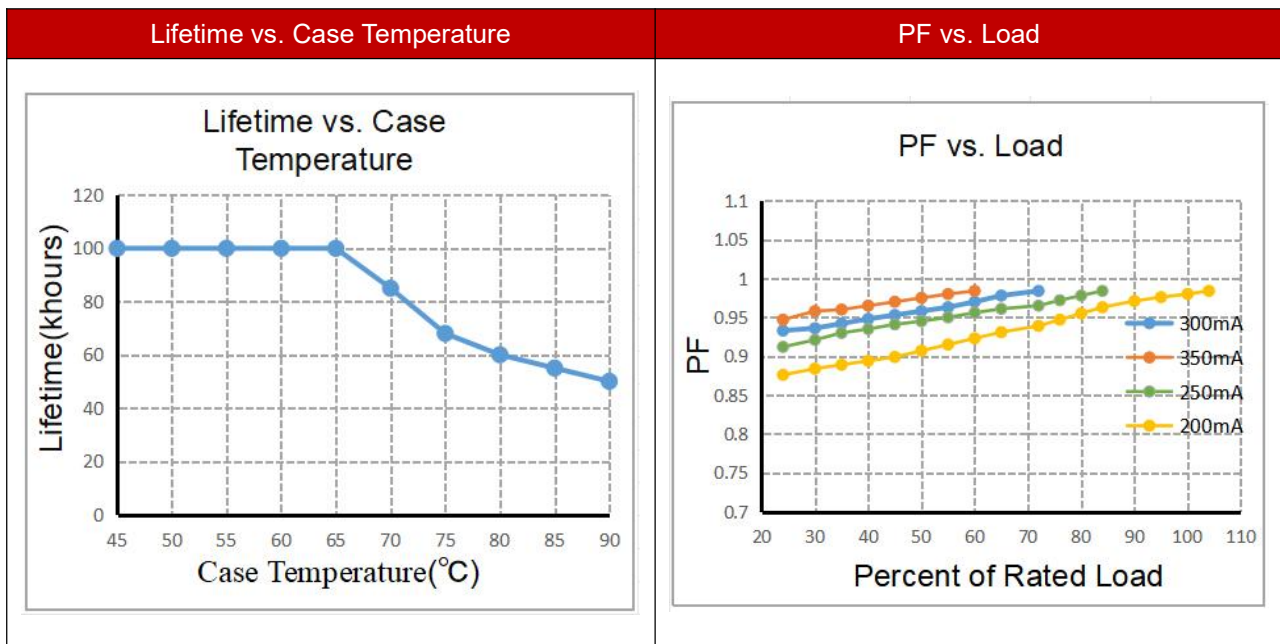
tc=90°C

110

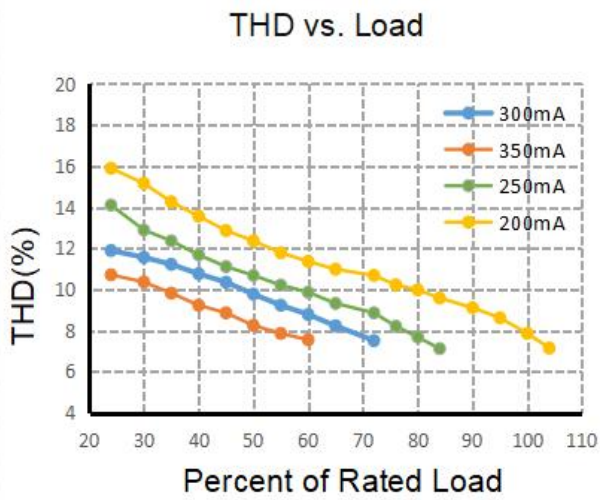
OFF ON

1 2

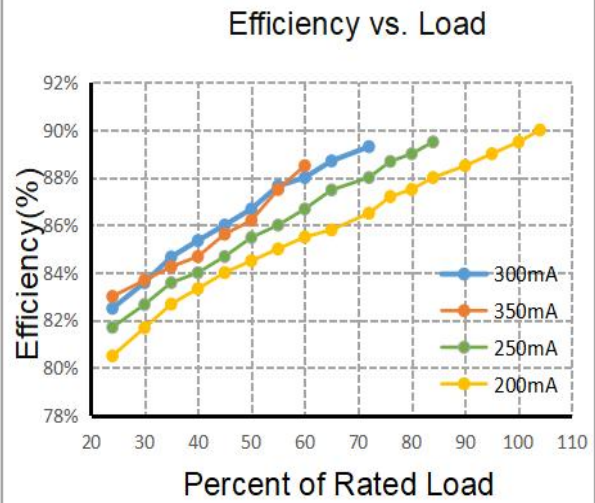
### 5. Electrical values



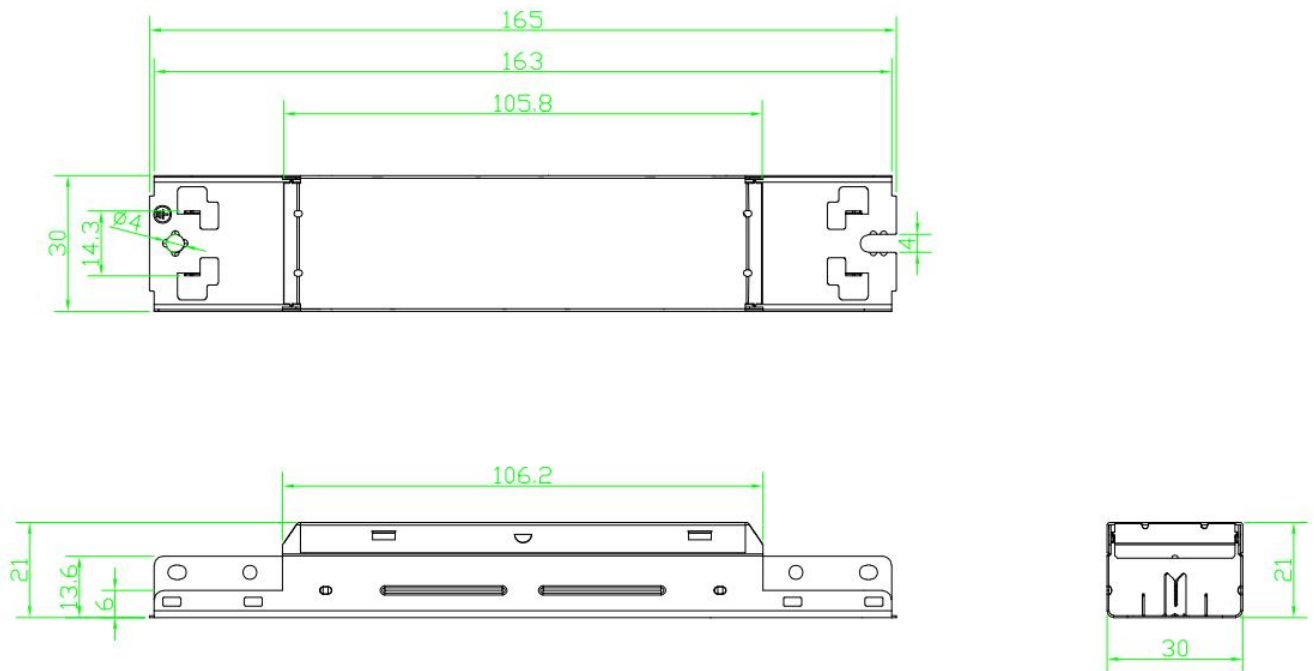
THD vs. Load



Efficiency vs. Load



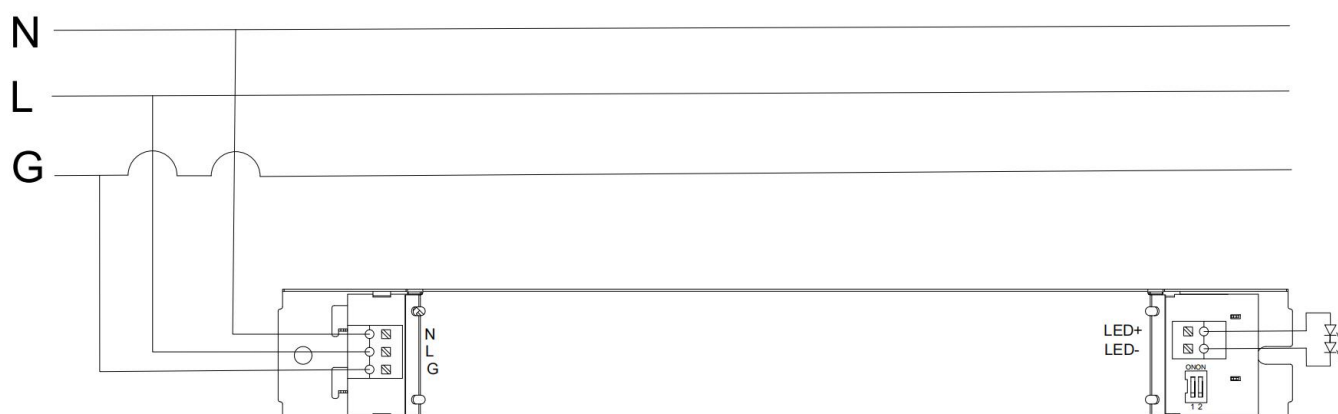
### 6. Dimension (Unit: mm)



### 7. Packing information

| Carton<br>L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/<br>Carton(kg) | Gross weight /<br>Carton(kg) |
|---------------------|------------|---------------------|---------------------------|------------------------------|
| L375*W245*H220      | 110        | 0.822               | 9.05                      | 9.49                         |

### 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.)
- The lamp controlgear relies upon the luminaire enclosure for protection against accidental contact with live parts.

### 10. REVISION HISTORY

| DATE      | REV. | REMARK           |
|-----------|------|------------------|
| 2024-11-1 | V1.0 | Initial release. |
|           |      |                  |
|           |      |                  |
|           |      |                  |
|           |      |                  |