Product description

- Dimmable built-in LED Driver for LED
- Constant current LED Driver
- Dimming range 1...100 %
- Output current adjustable between 350 – 900 mA
- Max. output power 35 W
- Nominal life-time up to 100,000 h
- 5-year guarantee

Housing properties

- Compact low-profile dimensions
- Casing: polycarbonate, white
- Type of protection IP20

Interfaces

- DALI DEVICE Type 6
- DSI
- switchDIM (with memory function)
- corridorFUNCTION

Functions

- Adjustable output current in 1-mA-steps (I-SELECT resistor or DALI)
- Power-up fading at AC
- Intelligent Temperature Guard (overtemperature protection)
- Short-circuit proof
- Overload protection
- Constant Light Output function
- Suitable for emergency escape lighting systems acc. to EN50172

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging carton</th>
<th>Packaging pallet</th>
<th>Weight per pc</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCAI 35W 350mA-900mA ECO C flat</td>
<td>28000336</td>
<td>20 pc(s)</td>
<td>1000 pc(s)</td>
<td>0.170 kg</td>
</tr>
</tbody>
</table>

Standards, page 4
LED Driver
Compact dimming

**Technical data**

- **Rated supply voltage**: 220 – 240 V
- **AC voltage range**: 198 – 264 V
- **DC voltage range**: 170 – 280 V
- **Mains frequency**: 0 / 50 / 60 Hz
- **Overvoltage protection**: 320 V AC, 48 h
- **Typ. current (at 230 V, 50 Hz, full load)**: 153 – 185 mA
- **Typ. current (220 V, 0 Hz, full load, 15 % dimming level)**: 32 – 35 mA
- **Leakage current (PE)**: < 0.22 mA
- **Max. input power**: 42.5 W
- **Typ. efficiency (at 230 V / 50 Hz / full load)**: 86 – 89 %
- **λ (at 230 V, 50 Hz, full load)**: ≥ 0.98
- **Typ. power input on stand-by**: 75 – 100 mW
- **THD (at 230 V, 50 Hz, full load)**: < 4.4 %
- **Starting time (at 230 V, 50 Hz, full load, acc. to DALI)**: < 0.6 s
- **Starting time (DC mode)**: < 0.2 s
- **Switchover time (AC/DC)**: < 0.2 s
- **Turn off time (at 230 V, 50 Hz, full load)**: < 20 ms
- **Hold on time (at 230 V, 50 Hz, full load)**: < 14 ms
- **Output current tolerance**: ± 5 %
- **Output LF current ripple (< 120 Hz)**: < 2 %
- **Max. peak output current**: < output current + 20 %
- **PWM frequency**: 500 Hz
- **Max. output voltage**: 120 V
- **Burst / surge peaks output side against PE**: 12 kV
- **Type of protection**: IP20
- **Life-time**: up to 100,000 h
- **Dimensions**: L x W x H 140 x 100 x 15 mm

**Specific technical data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Output current²</th>
<th>Min. forward voltage</th>
<th>Max. forward voltage³</th>
<th>Max. output power⁴</th>
<th>Typ. power consumption (at 230 V, 50 Hz, full load)⁵</th>
<th>Typ. current consumption (at 230 V, 50 Hz, full load)⁵</th>
<th>Max. casing temperature tc</th>
<th>Ambient temperature ta max.</th>
<th>I-SELECT resistor value</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-SELECT PLUG 350mA GN 28000451</td>
<td>350 mA</td>
<td>40 V</td>
<td>90 V</td>
<td>315 W</td>
<td>37 W</td>
<td>153 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>open</td>
</tr>
<tr>
<td>I-SELECT PLUG 400mA GN 28000452</td>
<td>400 mA</td>
<td>40 V</td>
<td>90 V</td>
<td>338 W</td>
<td>37 W</td>
<td>165 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>7150 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 425mA GN 28000453</td>
<td>425 mA</td>
<td>37 V</td>
<td>85 V</td>
<td>353 W</td>
<td>40 W</td>
<td>176 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>66.50 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 450mA GN 28000277</td>
<td>450 mA</td>
<td>35 V</td>
<td>79 V</td>
<td>356 W</td>
<td>40 W</td>
<td>177 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>57.60 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 500mA GN 28000454</td>
<td>500 mA</td>
<td>31 V</td>
<td>71 V</td>
<td>35.5 W</td>
<td>40.5 W</td>
<td>178 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>49.90 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 525mA GN 28000455</td>
<td>525 mA</td>
<td>30 V</td>
<td>68 V</td>
<td>37.3 W</td>
<td>40.6 W</td>
<td>179 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>42.20 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 550mA GN 28000456</td>
<td>550 mA</td>
<td>28 V</td>
<td>65 V</td>
<td>35.8 W</td>
<td>40.8 W</td>
<td>179 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>38.30 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 600mA GN 28000457</td>
<td>600 mA</td>
<td>26 V</td>
<td>59 V</td>
<td>34.8 W</td>
<td>40.6 W</td>
<td>178 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>35.70 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 625mA GN 28000458</td>
<td>625 mA</td>
<td>25 V</td>
<td>57 V</td>
<td>35.6 W</td>
<td>40.9 W</td>
<td>179 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>32.40 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG 650mA GN 28000459</td>
<td>650 mA</td>
<td>24 V</td>
<td>55 V</td>
<td>35.8 W</td>
<td>41 W</td>
<td>179 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>28.70 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MIX GR 28000274</td>
<td>675 mA</td>
<td>23 V</td>
<td>53 V</td>
<td>35.5 W</td>
<td>41.2 W</td>
<td>181 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>26.10 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000278</td>
<td>700 mA</td>
<td>22 V</td>
<td>51 V</td>
<td>35.7 W</td>
<td>41.4 W</td>
<td>182 mA</td>
<td>90 °C</td>
<td>-25 – +60 °C</td>
<td>22.00 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000456</td>
<td>725 mA</td>
<td>21 V</td>
<td>49 V</td>
<td>35.5 W</td>
<td>41.1 W</td>
<td>181 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>17.40 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000457</td>
<td>750 mA</td>
<td>20 V</td>
<td>47 V</td>
<td>35.3 W</td>
<td>40.9 W</td>
<td>180 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>15.00 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000458</td>
<td>775 mA</td>
<td>19 V</td>
<td>45 V</td>
<td>35.2 W</td>
<td>41.5 W</td>
<td>182 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>12.40 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000459</td>
<td>800 mA</td>
<td>18 V</td>
<td>43 V</td>
<td>35.5 W</td>
<td>41.5 W</td>
<td>182 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>10.00 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000460</td>
<td>825 mA</td>
<td>17 V</td>
<td>41 V</td>
<td>35.9 W</td>
<td>42.1 W</td>
<td>185 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>7.50 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000461</td>
<td>850 mA</td>
<td>17 V</td>
<td>39 V</td>
<td>35.1 W</td>
<td>43.7 W</td>
<td>182 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>3.50 kΩ</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR 28000462</td>
<td>875 mA</td>
<td>17 V</td>
<td>37 V</td>
<td>35.3 W</td>
<td>44.1 W</td>
<td>182 mA</td>
<td>90 °C</td>
<td>-25 – +55 °C</td>
<td>2.00 kΩ</td>
</tr>
</tbody>
</table>

¹ Valid at 100 % dimming level
² Depending on the selected output current
³ Depending on the DALI traffic at the interface
⁴ ± 20 %
⁵ At full load.
⁶ Output current is mean value.
⁷ Valid for immediate change of power supply type otherwise the starting time is valid.

Data sheet 01/20-LC094-19
Subject to change without notice. Information provided without guarantee.
Product description

- Ready-for-use resistor to set output current value
- Compatible with LED Driver series TOP and ECO
- Resistor is base insulated
- Resistor power 0.25 W
- Resistor value tolerance ± 1 %

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Colour</th>
<th>Marking</th>
<th>Resistor value</th>
<th>Packaging</th>
<th>Weight per pc</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-SELECT PLUG 400mA GN</td>
<td>28000451</td>
<td>Green</td>
<td>0400</td>
<td>66.50 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 450mA GN</td>
<td>28000452</td>
<td>Green</td>
<td>0450</td>
<td>57.60 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 500mA GN</td>
<td>28000277</td>
<td>Green</td>
<td>0500</td>
<td>49.90 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 550mA GN</td>
<td>28000453</td>
<td>Green</td>
<td>0550</td>
<td>42.20 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 600mA GN</td>
<td>28000464</td>
<td>Green</td>
<td>0600</td>
<td>35.70 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 650mA GN</td>
<td>28000455</td>
<td>Green</td>
<td>0650</td>
<td>28.70 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 700mA GN</td>
<td>28000278</td>
<td>Green</td>
<td>0700</td>
<td>22.00 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 750mA GN</td>
<td>28000456</td>
<td>Green</td>
<td>0750</td>
<td>15.00 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 800mA GN</td>
<td>28000457</td>
<td>Green</td>
<td>0800</td>
<td>10.00 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG 850mA GN</td>
<td>28000458</td>
<td>Green</td>
<td>0850</td>
<td>5.36 kΩ</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
<tr>
<td>I-SELECT PLUG MAX GR</td>
<td>28000274</td>
<td>Grey</td>
<td>MAX</td>
<td>0 Ω</td>
<td>10 pc(s)</td>
<td>0.001 kg</td>
</tr>
</tbody>
</table>
Standards
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 62384
EN 61547
EN 62386-101 (according to DALI standard V1)
EN 62386-102
EN 62386-207
According to EN 50172 for use in central battery systems
According to EN 60598-2-22 suitable for emergency lighting installations

Housing fulfills requirements for reinforced insulation according EN 60598-1.

Overload protection
If the output voltage range is exceeded the LED Driver turns off the LED output. After restart of the LED Driver the output will be activated again. The restart can either be done via mains reset or via interface (DALI, DSI, switchDIM).

Overtemperature protection
The LED Driver is protected against temporary thermal overheating. If the temperature limit is exceeded the output current of the LED module(s) is reduced. The temperature protection is activated above tc max. The activation temperature differs depending on the LED load. On DC operation this function is deactivated to fulfill emergency requirements.

Short-circuit behaviour
In case of a short circuit at the LED output the LED output is switched off. After restart of the LED Driver the output will be activated again. The restart can either be done via mains reset or via interface (DALI, DSI, switchDIM).

No-load operation
The LED Driver will not be damaged in the no-load operation. The output will be deactivated and therefore free of voltage. If a LED load is connected the device has to be restarted before the output will be activated again.

Expected life-time

<table>
<thead>
<tr>
<th>Type</th>
<th>Output current</th>
<th>ta</th>
<th>40 °C</th>
<th>45 °C</th>
<th>50 °C</th>
<th>55 °C</th>
<th>60 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCAI 35W 350mA-900mA ECO C flat</td>
<td>≤ 350 mA</td>
<td>tc</td>
<td>65 °C</td>
<td>70 °C</td>
<td>75 °C</td>
<td>80 °C</td>
<td>80 °C</td>
</tr>
<tr>
<td></td>
<td>Life-time</td>
<td>&gt; 100,000 h</td>
<td>&gt; 100,000 h</td>
<td>&gt; 100,000 h</td>
<td>&gt; 100,000 h</td>
<td>80,000 h</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 °C</td>
<td>80 °C</td>
<td>80 °C</td>
<td>85 °C</td>
<td>90 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Life-time</td>
<td>&gt; 100,000 h</td>
<td>&gt; 100,000 h</td>
<td>95,000 h</td>
<td>70,000 h</td>
<td>50,000 h</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>75 °C</td>
<td>80 °C</td>
<td>85 °C</td>
<td>90 °C</td>
<td>90 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Life-time</td>
<td>&gt; 100,000 h</td>
<td>&gt; 100,000 h</td>
<td>80,000 h</td>
<td>55,000 h</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>

The LED Driver is designed for a life-time stated above under reference conditions and with a failure probability of less than 10 %.

Maximum loading of automatic circuit breakers in relation to inrush current

<table>
<thead>
<tr>
<th>Automatic circuit breaker type</th>
<th>C10</th>
<th>C15</th>
<th>C16</th>
<th>C20</th>
<th>B10</th>
<th>B13</th>
<th>B16</th>
<th>B20</th>
<th>Inrush current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Ø</td>
<td>1.5 mm²</td>
<td>1.5 mm²</td>
<td>2.5 mm²</td>
<td>4 mm²</td>
<td>15 mm²</td>
<td>15 mm²</td>
<td>2.5 mm²</td>
<td>4 mm²</td>
<td>Iₗₜₜ</td>
</tr>
<tr>
<td>LCAI 35W 350mA-900mA ECO C flat</td>
<td>32</td>
<td>50</td>
<td>56</td>
<td>66</td>
<td>16</td>
<td>25</td>
<td>28</td>
<td>33</td>
<td>3.4 A</td>
</tr>
</tbody>
</table>

This are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker. Calculation uses typical values from ABB series S200 as a reference. Actual values may differ due to used circuit breaker types and installation environment.

Harmonic distortion in the mains supply (at 230 V / 50 Hz and full load) in %

<table>
<thead>
<tr>
<th>THD</th>
<th>3</th>
<th>5</th>
<th>7</th>
<th>9</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCAI 35W 350mA-900mA ECO C flat</td>
<td>&lt; 4.4</td>
<td>4.4</td>
<td>&lt; 1</td>
<td>&lt; 1</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>
Control input (DA/N, DA/L)
Digital DALI signal or switchDIM can be wired on the same terminals (DA/N and DA/L).

Digital signal DALI/DSI
The control input is non-polar for digital control signals (DALI, DSI). The control signal is not SELV. Control cable has to be installed in accordance to the requirements of low voltage installations. Different functions depending on each module.

switchDIM
Integrated switchDIM function allows a direct connection of a push to make switch for dimming and switching. Brief push (< 0.6 s) switches LED Driver ON and OFF. The LED Drivers switch-ON at light level set at switch-OFF. When the push to make switch is held, LED modules are dimmed. After repush the LED modules are dimmed in the opposite direction. In installations with LED Drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED Drivers can be synchronized to 50 % dimming level by a 10 s push. Use of push to make switch with indicator lamp is not permitted.

corridorFUNCTION
The corridorFUNCTION can be programmed in two different ways. To program the corridorFUNCTION by means of software a DALI-USB interface is needed in combination with a DALI PS. The software can be the masterCONFIGURATOR.
To activate the corridorFUNCTION without using software a voltage of 230 V simply has to be applied for five minutes at the switchDIM connection. The unit will then switch automatically to the corridorFUNCTION.

Note:
If the corridorFUNCTION is wrongly activated in a switchDIM system (for example a switch is used instead of pushbutton), there is the option of installing a pushbutton and deactivating the corridorFUNCTION mode by five short pushes of the button within three seconds.

switchDIM and corridorFUNCTION are very simple tools for controlling ballasts with conventional momentary-action switches or motion sensors. To ensure correct operation a sinusoidal mains voltage with a frequency of 50 Hz or 60 Hz is required at the control input. Special attention must be paid to achieving clear zero crossings. Serious mains faults may impair the operation of switchDIM and corridorFUNCTION.

Function: adjustable current (I-SELECT)
The output current of the LED Driver can be selected between 350 and 900 mA via DALI.
Adjustment can be done by masterCONFIGURATOR (see masterCONFIGURATOR documentation).

Constant light output (CLO)
The luminous flux of an LED decreases constantly over the life-time. The CLO function ensures that the emitted luminous flux remains stable. For that purpose the LED current will increas continously over the LED life-time. In masterCONFIGURATOR it is possible to select a start value (in percent) and an expected life-time. The LED Driver adjusts the current afterwards automatically.

Dimming
Dimming range 1% to 100%
Digital control with:
• DSI signal: 8 bit Manchester Code
  Speed 1% to 100% in 14 s
• DALI signal: 16 bit Manchester Code
  Speed 1% to 100% in 0.2 s
Programmable parameter:
Minimum dimming level
Maximum dimming level
Default minimum = 1 %
Default maximum = 100 %

Programmable range 1 % ≤ MIN ≤ 100 %
Programmable range 100 % ≥ MAX ≥ 1 %

Dimming curve is adapted to the eye sensitiveness.
Dimming is realized by a combination of analog amplitude dimming and PWM dimming.
35 ... 100 %: amplitude dimming
1 ... 34 %: PWM dimming

Dimming characteristics

DC emergency operation
The LED Driver is designed for operation on DC voltage and pulsed DC voltage.
Light output level in DC operation: programmable 1 – 100 % (EOF i = 0.13). Programming by extended DSI or DALI signal (16 bit):
Default value is 15 %
In DC operation dimming mode can be activated.
The voltage-dependent input current of Driver incl. LED module is depending on the used load.
The voltage-dependent no-load current of Driver (without or defect LED module) is for:
AC: 20.5 mA
DC: 5.5 mA

Power-up fading
The power-up fading function offers the opportunity to realise a soft start. The soft start will be applied at turning on the mains and at starts by switchDIM.
The function is programmed as a DALI fade time in the range from 0.7 to 16 seconds and dimms in the selected time from 0 % to the power-on level. By factory default power-up fading is not active (0 seconds).

Programming
With appropriate software and a USB interface different functions can be activated and various parameters can be configured in the LED Driver. All that is needed is a DALI-USB and the software (masterCONFIGURATOR).

masterCONFIGURATOR
At version 2.8:
For programming functions (CLO, I-SET, ITM, power-up fading, corridorFUNCTION) and device settings (fade time, ePowerOnLevel, DC level, etc.) For further information see masterCONFIGURATOR manual.
Electrical connections

Wiring

LED Driver / supply

Wire preparation:
0.5 – 15 mm²
8 – 9 mm

Loosen wire through twisting and pulling or using a Ø 1 mm release tool

Wiring type and cross section
Solid wire with a cross section of 0.5 – 15 mm². Strip 8 – 9 mm of insulation from the cables to ensure perfect operation of terminals.

LED Driver / LED module

Wiring type and cross section
The wiring can be solid or flexible cable with a cross section of 0.2 to 0.75 mm². For the push-wire connection you have to strip the insulation (6–7 mm). Loosen wire through twisting and pulling.

Wire preparation:
0.2 – 0.75 mm²
6 – 7 mm

Release of the wiring
Press down the “push button” and remove the cable from front.

Earth connection
The earth connection is conducted as protection earth (PE). If the LED Driver will be earthed, protection earth (PE) has to be used. There is no earth connection required for the functionality of the LED Driver. Earth connection is recommended to improve following behaviour:

- Electromagnetic interferences (EMI)
- LED glowing at stand-by
- Transmission of mains transients to the LED output

In general it is recommended to earth the LED Driver if the LED module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

Installation note
Max. torque at the clamping screw: 0.5 Nm / M4
Diagrams LCAI 35W 350mA-900mA ECO C flat

Efficiency vs load

Power factor vs load

THD vs load

Efficiency vs load

Power factor vs load

THD vs load

100 % load correspond to the max. output power (full load) according to the table on page 2.

Insulation and electric strength testing of luminaires

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

According to IEC 60598-1 Annex Q (informative only) or ENEC 303-Annex A, each luminaire should be submitted to an insulation test with 500 V ac for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal. The insulation resistance must be at least 2 MΩ.

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 V ac (or \(1.414 \times 1500\) V dc). To avoid damage to the electronic devices this test must not be conducted.

Maximum number of switching cycles

All LED Driver are tested with 50,000 switching cycles. The actually achieved number of switching cycles is significantly higher.

Additional information

Additional technical information at www.tridonic.com → Technical Data

Guarantee conditions at www.tridonic.com → Services

Life-time declarations are informative and represent no warranty claim. No warranty if device was opened.