



# DL-Pak range



30 W to 200 W  
 LED  
 Class 2



DL-Pak drivers are specifically designed for powering LED lamps and lighting fixtures for street lighting.

The range is used to power 12 to 100 LED lamps, with power ratings of 30 W to 200 W.

They stand out because of their very high efficiency and power factor, Class 2 design (no leakage current) and IP65 sealing level.

They are integrated into lamppost bases or wall-mounted junction boxes, away from heat sources (Drivers and LEDs), to maximise their lifetime and light output. This configuration also makes installation and maintenance easy.

**ADVANTAGES**

Excellent reliability and long life.  
 Can be configured to meet your specific needs.  
 Possible distance between driver and source: up to 15 m.  
 Numerous integrated dimming options to optimise energy savings.

## THE RANGE

Up to 70 W



DL-Pak 70  
DL-Pak 70 SELV

Up to 100 W



DL-Pak 100  
DL-Pak 100L

Up to 200 W



DL-Pak 200



Makes it possible to obtain energy saving certificates:

- RES-EC-101 > 2.0 kWh cumac x P(W).
- RES-EC-102 > 1.6 kWh cumac x P(W).
- RES-EC-103 > 8.0 kWh cumac x P(W).
- RES-EC-104 > case 1: 9300 kWh cumac x N lighting fixtures.  
 > case 2: 7200 kWh cumac x N lighting fixtures.

## OPERATION

The DL-Pak drivers are direct current power supplies. They are suitable for the serial connection of LEDs: outstanding flexibility of LED light fixture configurations, uniformity of current, stability of the light, high efficiency, optimisation of LED lifetime, etc.

## INTEGRATION

**In light fixtures**

DL-Pak 100L

The DL-Pak 100L driver is specifically designed for optimised integration into light fixtures.

**Wall-mounting**

Electronic equipment for wall-mounted installation is principally supplied in CSL or CSP console junction boxes.

Wall-mounted junction box + DL-Pak 70/100/100L/200

**In lamppost bases**

DL-Pak 70  
DL-Pak 100  
DL-Pak 200

DL-Pak 70/100/200 + junction box

To facilitate installation, the DL-Pak drivers are available in the form of complete modules. These modules can be supplied with all Sogexi lamppost junction boxes. Numerous configurations are possible, including single and double drivers.

## DL-Pak renovation kit

Particularly suitable for completing maintenance on existing LED installations, the DL-Pak renovation kit provides a fast and simple solution for keeping your equipment in optimal operating condition.

### Benefits of the renovation solution:

- Fewer equipment references for maintaining all of your assets.
- Easily implemented on all existing installations.
- Positioned in lamppost bases to facilitate maintenance.



DL-Pak renovation kit

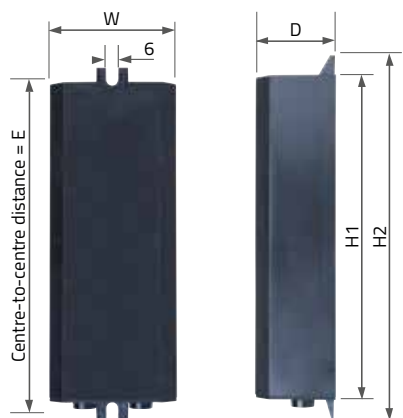




# DL-Pak range

|  |   | 70 W   |               | 100 W  |             | 200 W  |
|--|---|--|---------------|--|-------------|--|
|  |   | DL-Pak 70                                      |               | DL-Pak 100                                     | DL-Pak 100L | DL-Pak 200                                     |
|  |   | Insulated                                      | SELV          |  |             |  |
| <b>SMART FUNCTIONS</b>                 |   |  |               |  |             |  |
| Light sources                          |   | LED  |               | LED  | LED         | LED  |
| Dimming functions                      | ITD   | ●  |               | ●  | ●           | ●  |
|  | DALI  | ●  |               | ●  | ●           | ●  |
|  | PILOT   | via XD4 module                                 |               | ●  | ●           | ●  |
|  | DIM/V   | Dimmer's compatibility with the cabinet        |               | ●  | ●           | ●  |
| Additional functions                   | CLO   | ●  |               | ●  | ●           | ●  |
|  | POL   | ●  |               | ●  | ●           | ●  |
| Configuration                          | Configurable current  |  |               | ●  | ●           | ●  |
|  | Wireless setbox (wireless configuration in the factory)           |  |               | ●  | ●           | ●  |
|  | DALI setbox (on-site configuration)                               | ●  |               | ●  | ●           | ●  |
| <b>TECHNICAL CHARACTERISTICS</b>       |   |  |               |  |             |  |
| Electrical specifications              | Power supply  | 220-240 V / 50-60 Hz                           |               | 220-240 V / 50-60 Hz                           |             | 220-240 V / 50-60 Hz                           |
|  | Electrical class  | Class 2  |               | Class 2  |             | Class 2  |
|  | Output power (max.)   | 70 W   |               | 100 W  |             | 200 W  |
|  | Output voltage  | 30-135 Vdc                                     | 30-135 Vdc    | 30-135 Vdc                                     |             | 30-135 Vdc                                     |
|  | Output current  | 350 to 1,050 mA                                |               | 100 to 700 mA                                  |             | 100 to 2,100 mA                                |
|  | For information: Max. possible number of LEDs connected in series | 10 to 40 LEDs                                  | 10 to 30 LEDs | 12 to 60 LEDs                                  |             | 12 to 100 LEDs                                 |
|  | Efficiency @ Pmax   | 92%  |               | 96%  |             | 95%  |
|  | Power factor @ Pmax   | 0.98   |               | 0.98   |             | 0.98   |
|  | Power factor @ 50% of Pmax  | > 0.90   |               | > 0.90   |             | > 0.90   |
|  | Power factor @ 20% of Pmax  | 0.77   |               | 0.82   |             | 0.92   |
| Number per phase B breaker or gG fuse* | Inrush current / Pulse time                                       | 25 A / 0.6 ms                                  |               | 6 A / 0.1 ms                                   |             | 35 A / 1 ms                                    |
|  | 16 A  | 15/20  |               | 25   |             | 10/12  |
|  | 32 A  | 30/40  |               | 50   |             | 20/24  |
|  | 40 A  | 37/50  |               | 62   |             | 25/30  |
|  | > 40 A  | = 0.95 / 0.25 x I(A)                           |               | = 1.56 x I(A)                                  |             | = 0.62 / 0.75 x I(A)                           |
| Mechanical characteristics             | Casing  | Self-extinguishing polycarbonate               |               | Self-extinguishing polycarbonate               |             | Self-extinguishing polycarbonate               |
|  | IK (EN 62262)   | IK08   |               | IK08   |             | IK08   |
|  | IP (EN 60529)   | IP65   |               | IP65   | IP21        | IP65   |
|  | Max. distance from the light source                               | 15 metres                                      |               | 15 metres                                      | 2 metres    | 15 metres                                      |
| Other characteristics                  | Estimated lifetime  | 60,000 hours at Tc < 55°C (90%)                |               | 100,000 hours at Tc < 55°C (90%)               |             | 80,000 hours at Tc < 55°C (90%)                |
| <b>STANDARDS AND CERTIFICATIONS</b>    |   |  |               |  |             |  |
| Certifications                         |   | CE   |               | CE & ENEC                                      |             | CE   |
| Product standards                      |   | EN61347-1 / EN61347-2-13<br>EN62384<br>EN61547 |               | EN61347-1 / EN61347-2-13<br>EN62384<br>EN61547 |             | EN61347-1 / EN61347-2-13<br>EN62384<br>EN61547 |
|  |   | EN55015 / EN61000-3-2 / EN61000-3-3            |               | EN55015 / EN61000-3-2 / EN61000-3-3            |             | EN55015 / EN61000-3-2 / EN61000-3-3            |

\* A/B values: values for double light lampposts and/or matching / values for spaced single light lampposts.



DL-Pak 70/100/200

### DIMENSIONS OF DRIVER ONLY

|         | 70 W      | 100 W |            | 200 W       |            |
|---------|-----------|-------|------------|-------------|------------|
|         | DL-Pak 70 |       | DL-Pak 100 | DL-Pak 100L | DL-Pak 200 |
|         | Insulated | SELV  |            |             |            |
| H1 (mm) | 143       | 143   | 133        | 175         |            |
| H2 (mm) | 173       | 173   | 155        | 205         |            |
| W (mm)  | 67        | 67    | 66         | 72          |            |
| D (mm)  | 45        | 45    | 46         | 45          |            |
| E (mm)  | 160       | 160   | 145        | 190         |            |

### DIMENSIONS OF SINGLE CONTROL GEAR MODULE (1 DRIVER + JUNCTION BOX)

| Associated junction box | 70 & 100 W             |          |          |         |          | 200 W      |          |         |          |
|-------------------------|------------------------|----------|----------|---------|----------|------------|----------|---------|----------|
|                         | DL-Pak 70 & DL-Pak 100 |          |          |         |          | DL-Pak 200 |          |         |          |
|                         | Minipak*               | Dynapak* | Citypak* | Polypak | Interpak | Dynapak*   | Citypak* | Polypak | Interpak |
| H1 (mm)                 | 268                    | 273      | 278      | 158     | 158      | 305        | 310      | 190     | 190      |
| H2 (mm)                 | 283                    | 295      | 388      | 267     | 349      | 295        | 388      | 267     | 349      |
| W (mm)                  | 67                     | 67       | 67       | 70      | 70       | 72         | 72       | 72      | 72       |
| D (mm)                  | 62                     | 77       | 77       | 95      | 95       | 77         | 77       | 95      | 95       |
| Inscribed square (mm)   | 67 x 47                | 67 x 60  | 67 x 60  | 70 x 86 | 70 x 87  | 72 x 58    | 72 x 58  | 72 x 85 | 72 x 86  |
| Inscribed diam. (mm)    | Ø 82                   | Ø 91     | Ø 91     | Ø 111   | Ø 111    | Ø 93       | Ø 93     | Ø 112   | Ø 112    |

### DIMENSIONS OF DOUBLE CONTROL GEAR MODULE (2 DRIVERS + JUNCTION BOX)

|                       |  |  |  |  |         |  |  |  |         |
|-----------------------|--|--|--|--|---------|--|--|--|---------|
| H1 (mm)               |  |  |  |  | 370     |  |  |  | 435     |
| H2 (mm)               |  |  |  |  | 349     |  |  |  | 349     |
| W (mm)                |  |  |  |  | 70      |  |  |  | 72      |
| D (mm)                |  |  |  |  | 95      |  |  |  | 95      |
| Inscribed square (mm) |  |  |  |  | 70 x 87 |  |  |  | 72 x 86 |
| Inscribed diam. (mm)  |  |  |  |  | Ø 111   |  |  |  | Ø 112   |

\* Flexible assembly: facilitates integration into the post

