

# LED Solutions Catalogue

# Helvar





## Independent specialist in world-class lighting

With a wide range of LED luminaire components and intelligent lighting controls, we design open and flexible solutions for lighting installation, programming and use. They're fast to install. Easy to adapt. And always right up-to-date.

Since 1921, it's been our primary goal to offer the highest standard of service. Today we support our customers through a network of competence centres and partners spanning more than 40 countries.

You'll find Helvar solutions in all sorts of places — from hotels, schools and offices to world known buildings, cruise liners or heritage sites.

We'll be with you every step of the journey; during consultation, design, implementation and servicing. Making us the easiest and smartest partner for you.



<b>FREEDOM WIRELESS</b>	<b>4-15</b>
<b>TUNABLE WHITE</b>	<b>16-19</b>
<b>MINI LED DRIVERS</b>	<b>20-31</b>
<b>DIMMABLE</b>	<b>20</b>
<b>NON-DIMMABLE</b>	<b>23</b>
<b>LINEAR LED DRIVERS</b>	<b>32-55</b>
<b>DIMMABLE</b>	<b>32</b>
<b>NON-DIMMABLE</b>	<b>39</b>
<b>COMPACT LED DRIVERS</b>	<b>56-68</b>
<b>DIMMABLE</b>	<b>56</b>
<b>NON-DIMMABLE</b>	<b>61</b>
<b>CONSTANT VOLTAGE DRIVERS</b>	<b>69-74</b>
<b>ACCESSORIES</b>	<b>75-76</b>
<b>LED MODULES</b>	<b>77-80</b>
<b>TOOLS &amp; SOFTWARE</b>	<b>81</b>
<b>LED GLOSSARY</b>	<b>82</b>
<b>DRIVER COMPARISON TABLES</b>	<b>83-92</b>





## FREEDOM WIRELESS LUMINAIRE COMPONENTS

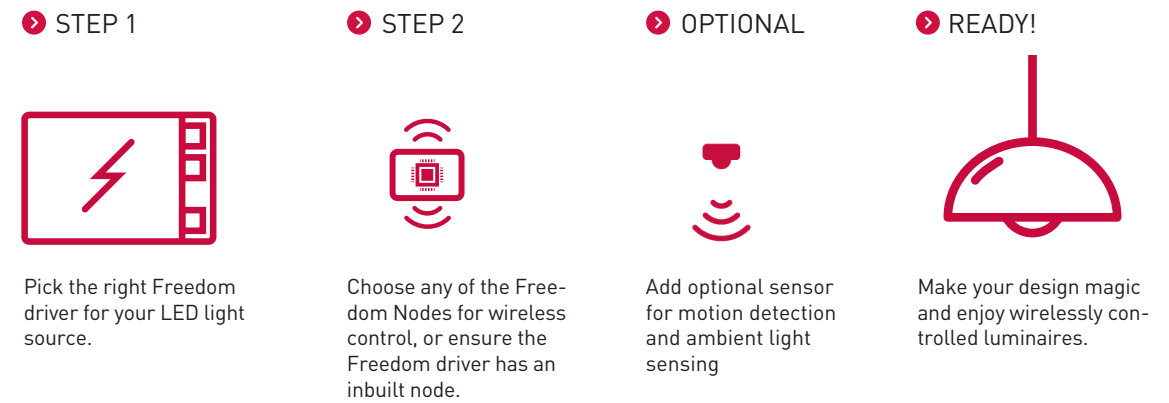
Freedom is Helvar's product family for wireless LED luminaire components. Freedom is a game changer: instead of following one standard or system, it gives our customers the freedom to choose one of the many wireless systems – or to go with all of them. With Freedom our customers have a unique flexibility to design and control luminaires wirelessly. And, our Freedom family is openly welcoming new solution members to join the journey.



### SIMPLY CLEVER

Freedom is built on two basic luminaire components: The Freedom Node and the Freedom LED driver. You also need a connecting cable between them. Any Freedom LED driver works with any Freedom Node. To add intelligence and maximise savings, apply the optional Freedom Sense luminaire sensor.

You can design your luminaire and choose the desired driver and wireless control software - as you wish.



### FREEDOM NODE External Radiocommunication Unit

#### KEY FEATURES

- Radiocommunication unit for flexible and easy-to-install wireless luminaire control
- Use with Helvar Freedom LED drivers
- Extensive wireless lighting control systems support to ensure all-around system specification needs
- Optimized mechanics to fit especially in linear luminaires
- Optimal radio performance
- Installation inside or outside of luminaire
- Wireless control system compatibility (05/2021): ActiveAhead, Casambi, Ensto Workspaces, Mount Kelvin, Mymesh, Ingy
- Wireless network compatibility (05/2021): Bluetooth Low Energy, Mymesh, Wirepas
- Connection cable available in 15 cm, 30 cm, 45 cm, 90 cm or 150 cm



CONTROL	FREEDOM Wireless
DATA COMMUNICATION	FREEDOM Protocol
FREQUENCY RANGE	2.402 – 2.480 GHz
WIRELESS NETWORKS	BLE / Wirepas / Mymesh
WORKING RANGE	Up to 30 m Node to Node
ANTENNA DESIGN	Omnidirectional pattern



WIRELESS

WIRELESS



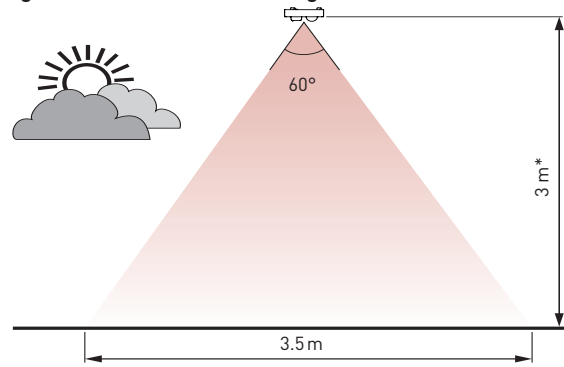
### FREEDOM SENSE

Luminaire-based wireless sensor

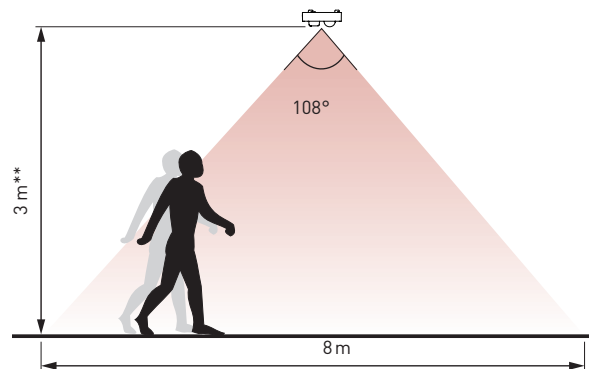
KEY FEATURES

- Very small luminaire-based sensor to be installed inside a luminaire or to ceiling with mounting accessories
- Light sensor for constant light / daylight harvesting
- PIR motion sensor for presence detection
- Use with Helvar Freedom LED drivers and Freedom Node radio
- Supported wireless systems: Helvar ActiveAhead, Casambi, Mount Kelvin, Mymesh (05/2021)
- Various cable lengths available for flexible installation: 30 cm, 80 cm or 150 cm
- Available in black for 80 cm cable length
- Dimensions: 32.4 mm x 15.5 mm x 18 mm
- Order code: 5630 (with variants)

Light Sensor - For constant light functions



Presence Detector - Passive infrared (PIR)



\* Max recommended height 3 m  
\*\* Max recommended height 4 m



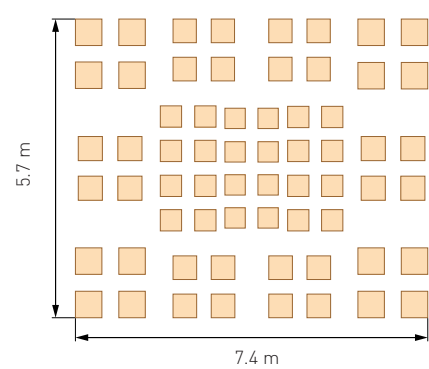
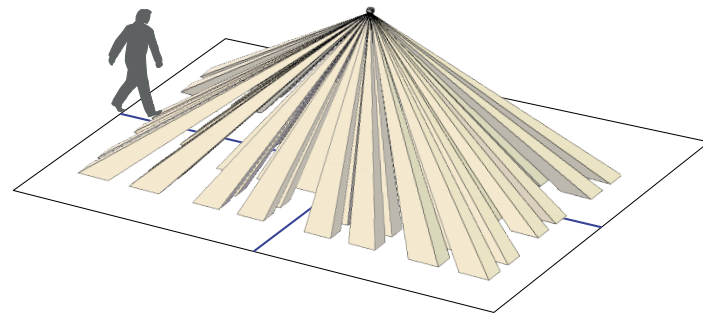
### FREEDOM SENSE OUTDOOR

Luminaire-based wireless sensor

KEY FEATURES

- Robust, batten mounted luminaire-based sensor
- Rugged polycarbonate housing with IP65 rating
- Light sensor for constant light / daylight harvesting
- PIR motion sensor for presence detection
- Use with Helvar Freedom LED drivers and Freedom Node radio
- Easy-to-seal external installation to luminaire enclosure.
- Supported wireless systems: Helvar ActiveAhead, Casambi, Mount Kelvin, Mymesh (05/2021)
- Cable length 80 cm
- Dimensions: 60 mm x 75 mm x 37 mm
- Order code: 5632020

Presence detection coverage at 2.5 m height



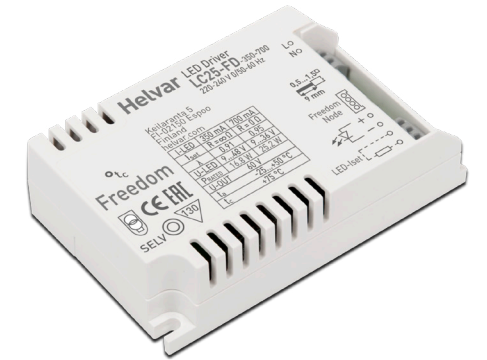
Detection pattern at floor level for 2.5 m mounting height

### 25 W FREEDOM LED DRIVER

LC25-FD-350-700

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- High efficiency up to 87 %
- Low current ripple, complying with IEEE 1789 recommendation
- Complies with IEEE 1789-2015 recommendations
- Suitable for DC use
- Optional strain relief for independent use



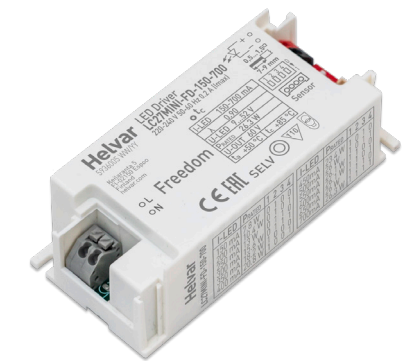
CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	25 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5815000

### 27 W FREEDOM MINI LED DRIVER

LC27MINI-FD-150-700

KEY FEATURES

- Future-proof Freedom Interface with integrated radiocommunication unit
- Amplitude dimming for the highest quality light output
- 1 - 100 % dimming range
- Low current ripple, complying with IEEE 1789 recommendation
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Smart Data features available: Luminaire Data, Energy Data, Diagnostics Data
- Suitable for DC use
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)
- Wireless control system compatibility (05/2021): ActiveAhead, Casambi



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	27 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 mA - 700 mA (default)
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5936505 [ActiveAhead compatibility] 5936105 [Casambi compatibility]

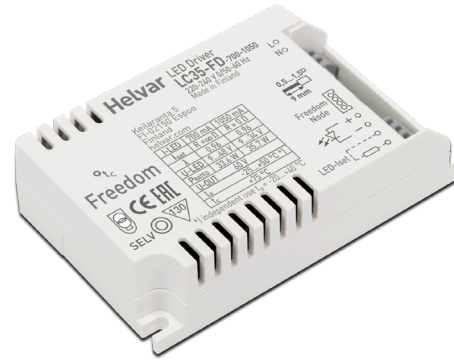


FREEDOM WIRELESS

**35 W FREEDOM LED DRIVER**  
LC35-FD-700-1050

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- High efficiency up to 89 %
- Low current ripple, complying with IEEE 1789 recommendation
- Complies with IEEE 1789-2015 recommendations
- Suitable for DC use
- Optional strain relief for independent use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable
OUTPUT CURRENT	700 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5814000



**10-42 W FREEDOM LED DRIVER**  
LL10-42-FD-120-350

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- Very high efficiency up to 93 %
- Low current ripple, complying with IEEE 1789 recommendation
- Complies with IEEE 1789-2015 recommendations
- Suitable for DC use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	120 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5810000



FREEDOM WIRELESS

**50 W TUNABLE WHITE FREEDOM LED DRIVER**  
LL50iC-FD-100-1200

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- 0.1 % - 100 % stepless dimming range per channel
- Tunable White mode
- DualChannel mode
- Extremely wide dynamic dimming range
- Two independent SELV rated output channels
- Smart Data features available: Luminaire Data, Energy Data, Diagnostics Data
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Suitable for DC use
- Helvar Driver Configurator support



CONTROL	FREEDOM Wireless, Tunable White
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	100 - 1200 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5778005



**50 W FREEDOM LED DRIVER**  
LL50SE-FD-100-1400

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- NFC technology for wireless programming
- Amplitude dimming for the highest quality light output
- 1 - 100 % dimming range
- Very high efficiency up to 94 %
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Smart Data features available: Luminaire Data, Energy Data, Diagnostics Data



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	100 - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5812000





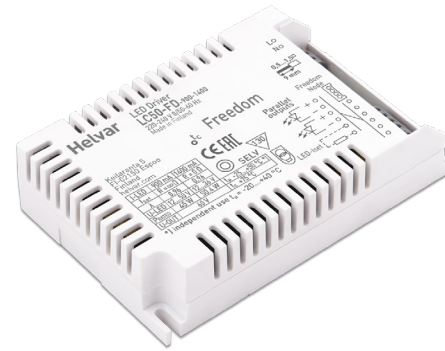
FREEDOM WIRELESS

**50 W FREEDOM LED DRIVER**

LC50-FD-900-1400

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- High efficiency up to 88 %
- Low current ripple, complying with IEEE 1789 recommendation
- Complies with IEEE 1789-2015 recommendations
- Suitable for DC use
- Optional strain relief for independent use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	900 (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5816000



**23-80 W FREEDOM LED DRIVER**

LL23-80-FD-150-350

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- Very high efficiency up to 94 %
- Low current ripple, complying with IEEE 1789 recommendation
- Complies with IEEE 1789-2015 recommendations
- Suitable for DC use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5812000



**80 W FREEDOM LED DRIVER**

LL80-FD-350-700

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- Very high efficiency up to 94 %
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Optional strain relief for independent use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5813000



**110 W FREEDOM LED DRIVER**

LL110-FD-350-700

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- Very high efficiency up to 95 %
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	110 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5811000





### 23-80 W FREEDOM LED DRIVER LL23-80-FD-150-350

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- Enhanced hybrid dimming technology for high quality light output
- 1 - 100 % dimming range
- Very high efficiency up to 94 %
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5812000



### FREEDOM LED DRIVER EXTENSION LL4-CV-FD

KEY FEATURES

- Wireless Freedom extension unit for constant voltage LED drivers
- Future-proof Freedom control input, 0.1%-100 dimming range
- Stand-by power < 0.1 W
- Duplicated output terminals for optional parallel connection
- Optional strain relief for independent use
- 4 dimmable output channels



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	120 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 5 A
OUTPUT PROTECTION	Depends on CV power supply
LUMINAIRE CLASS	Depends on CV power supply
DRIVER TYPE	Indoor, Compact
ORDER CODE	Coming up



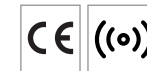
### FREEDOM DIMMABLE AC DRIVER ACD-FD

KEY FEATURES

- Alternating current driver for output phase-cut control
- Optimal fit for trailing edge dimmable LED driver and LED bulb applications
- Integrated surge protection up to 2 kV (L-GND)
- Stand-by power < 0.3 W
- Integrated radio unit for wireless control
- Last gasp functionality (500 ms) after power off
- Extremely compact mechanics (40.8 mm x 36.7 mm x 15.9 mm) for various built-in installation types e.g inside junction box, electrical outlet box or luminaire casing



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	150 VA @ 230 VAC / 75 VA @ 120 VAC
VOLTAGE RANGE	85 - 240 VAC
MAINS CURRENT	0.65 A at full load
OUTPUT PROTECTION	Non-isolated
FREQUENCY	50 - 60 HZ
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5658000





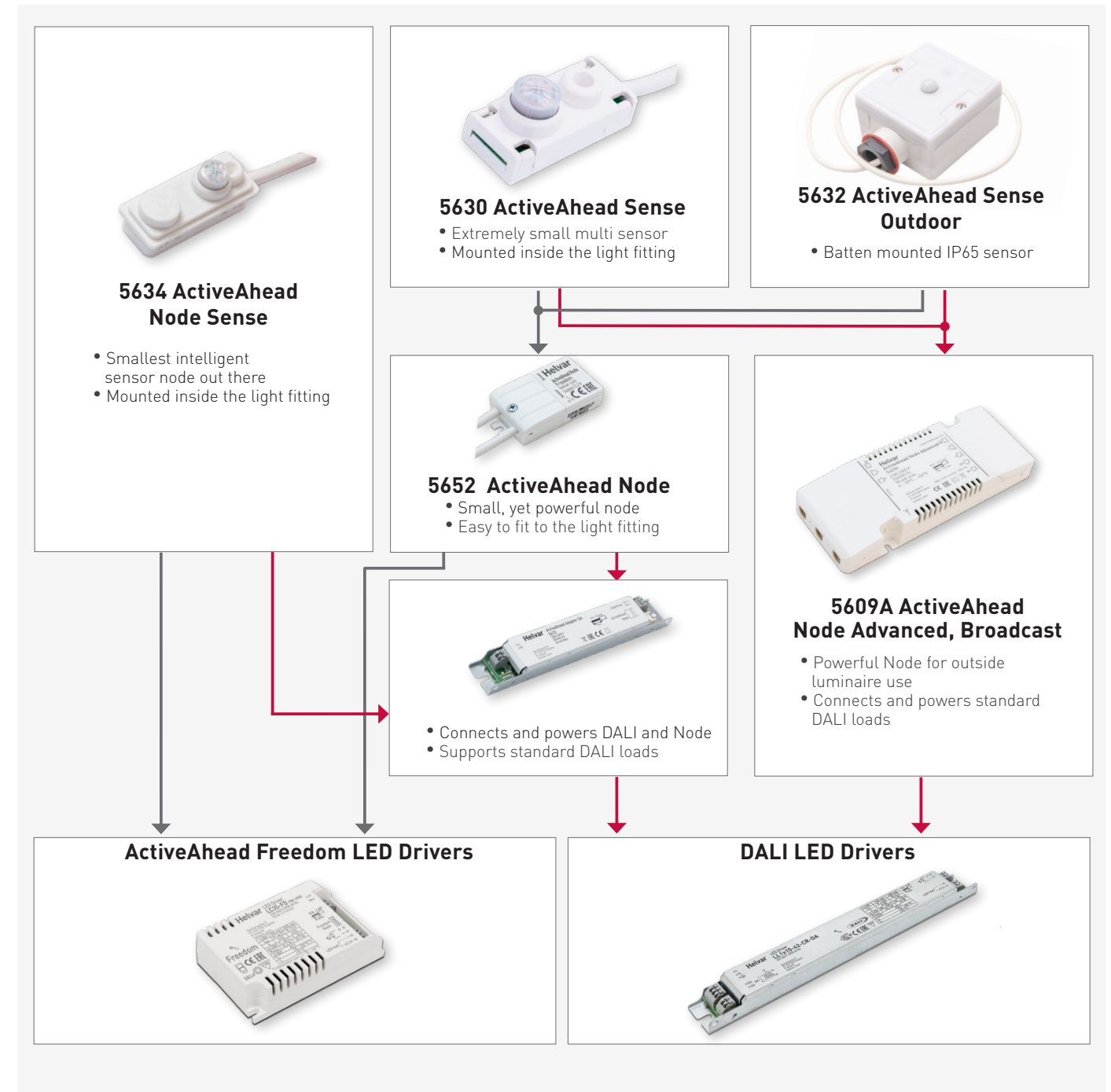


# TRULY INTELLIGENT WIRELESS LIGHTING CONTROL

**HELVAR ACTIVEAHEAD®** is a truly intelligent and scalable wireless lighting solution. Its unique self-learning capabilities give ultimate efficiency in setup and operations. ActiveAhead will continuously learn and generate insights, maximising positive impact on wellbeing and optimising your ever-evolving building. The perfect solution for offices, warehouses, stairways and parking garages.

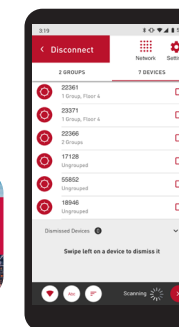
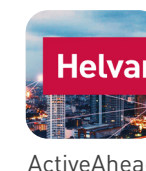
## CHOOSING YOUR SETUP

Choosing the right setup for your project is easy. Based on the space and luminaire types, select the Node and the corresponding suitable LED driver. When needed pick the sensor and a possible holder for it. For spaces such as meeting rooms, add the wireless control panel and you're good to go. If necessary, fine-tune the configuration on site using the ActiveAhead mobile app.



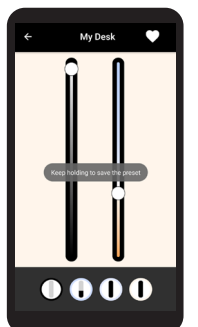
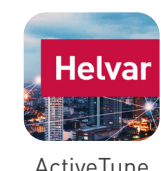
### Helvar ActiveAhead App

Download the ActiveAhead app to manage your ActiveAhead setup from your device.



### Helvar ActiveTune™

With Helvar ActiveTune space users can tune the light settings at their desk using their mobile phone.







# TUNABLE WHITE FOR SUPPORTING WELLBEING

## Human Centric Lighting with easy colour control

Our Tunable White products help you mimic outdoor lighting conditions, where morning light has different colour and intensity than midday light. Mix warm and cool white light and control light intensity. And promote well-being and productivity for people who spend big part of their days indoors under artificial light. For both wireless and wired lighting control solutions.

### HELVAR iC LED DRIVERS

Our iC LED Drivers are specifically made for dimming and tuning white colour. Two driver output channels are connected to two modules with different colour temperatures, warm white and cold white, which are controlled by using only one address. Total power of the drivers can be divided between the two output channels in any proportion. Helvar iC LED drivers can be used in DALI-based lighting control system as well with Freedom compatible wireless systems.

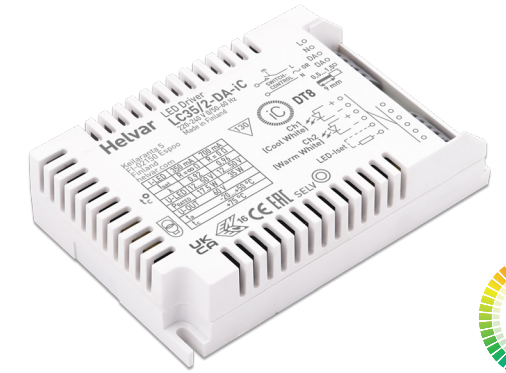
### HELVAR iC LED MODULES

Our linear iC LED modules have two individual LED channels that provide a dynamic colour temperature range from 2 700 to 6 500 K when operated with a Tunable White LED driver.

## 35/2 W TUNABLE WHITE LED DRIVER LC35/2-DA-iC

### KEY FEATURES

- 0.1 % - 100 % stepless dimming range per channel
- Two independent SELV rated output channels
- DALI device type 8 software for Tunable White
- Hybrid dimming technique for high quality light
- Switch-Control for intensity and colour control
- Protected up to 4 kV power network fast transients
- Suitable for DC use
- Helvar Driver Configurator support
- Optional strain relief for independent use

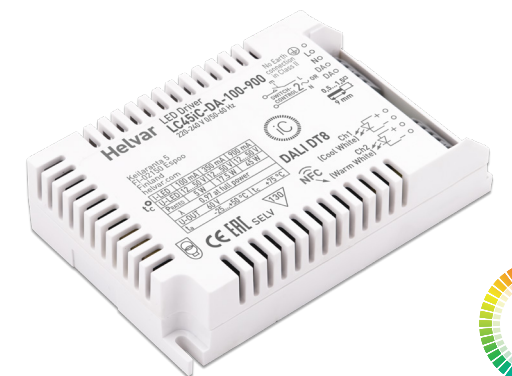


CONTROL	DALI DT8, Tunable White
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5567000

## 45/2 W TUNABLE WHITE LED DRIVER LC45iC-DA-100-900

### KEY FEATURES

- 0.1 % - 100 % stepless dimming range per channel
- Extremely wide dynamic dimming range
- Two independent SELV rated output channels
- DALI device type 8 software for Tunable White
- Amplitude dimming for the highest quality light output
- Switch-Control 2 for intensity and colour control
- NFC technology for wireless programming
- Suitable for DC use
- Helvar Driver Configurator support
- Optional strain relief for independent use



CONTROL	DALI DT8, Tunable White
MAX. OUTPUT POWER	45 W
OUTPUT	Adjustable
OUTPUT CURRENT	100 (default) - 900 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5765000



iC SERIES - TUNABLE WHITE

**50/2 W TUNABLE WHITE LED DRIVER**  
LL50iC-DA-100-1200

KEY FEATURES

- 0.1 % - 100 % stepless dimming range per channel
- Extremely wide dynamic dimming range
- Two independent SELV rated output channels
- DALI device type 8 software for Tunable White
- Amplitude dimming for the highest quality light output
- Switch-Control 2 for intensity and colour control
- NFC technology for wireless programming
- Suitable for DC use
- Helvar Driver Configurator support



CONTROL	DALI DT8, Tunable White
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	100 (default) - 1200 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5775000



**50 W TUNABLE WHITE FREEDOM LED DRIVER**  
LL50iC-FD-100-1200

KEY FEATURES

- Future-proof Freedom Interface to power the Freedom Node radiocommunication unit
- Supporting all Freedom ready wireless lighting control systems and mesh technologies
- 0.1 % - 100 % stepless dimming range per channel
- DualChannel mode
- Extremely wide dynamic dimming range
- Two independent SELV rated output channels
- Smart Data features available: Luminaire Data, Energy Data, Diagnostics Data
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Suitable for DC use
- Helvar Driver Configurator support



CONTROL	FREEDOM Wireless, Tunable White
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	100 - 1200 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5778005



iC SERIES - TUNABLE WHITE

**TUNABLE WHITE LED MODULES**  
LiC & LiC20 Series

KEY FEATURES

- Tunable White module, adjustable colour temperature 2700 K to 6500 K
- High efficacy up to 202 lm/W at Tc = 25 °C
- Accurate colour matching (SDCM), 3-step MacAdam
- High colour rendering index CRI > 80
- Easy connection with push-in connectors
- Easy installation
- Zhaga compliant dimensions
- Perfect fit for Helvar iC LED Drivers
- Compatible holder and optics solutions available



MODULE	LiC-282	LiC-562	LiC20-142	LiC20-282	LiC20-562
DIMENSIONS	280 x 24 x 6,2 mm	560 x 24 x 6,2 mm	140 x 20 x 6,2 mm	280 x 20 x 6,2 mm	560 x 20 x 6,2 mm
NOMINAL CURRENT	450 mA	450 mA	800 mA	800 mA	800 mA
FORWARD VOLTAGE	13.7 V	27.4 V	5.5 V	8.3 V	16.5 V
LUMINOUS FLUX UP TO	1600 lm	3200 lm	1260 lm	1890 lm	3780 lm
EFFICACY UP TO	202 lm/W	199 lm/W	195 lm/W	195 lm/W	195 lm/W
PRODUCT CODE	5173	5174	5177	5175	5176

**TUNABLE WHITE LED MODULE**  
LDL-iC Series

KEY FEATURES

- Tunable White module, adjustable colour temperature 2700 K to 6500 K
- High efficacy up to 191 lm/W at Tc = 25 °C
- Accurate colour matching (SDCM), 3-step MacAdam
- High colour rendering index CRI > 80
- Easy connection with push-in connectors
- Easy installation
- Perfect fit for Helvar iC LED Drivers
- Ideal solution for LEDiL DAISY-4X1 optics and DAISY-28X1 shade



MODULE	LDL-iC-562
DIMENSIONS	23,8 x 559,8 x 6,2 mm
NOMINAL CURRENT	600 mA
FORWARD VOLTAGE	19.8 V
LUMINOUS FLUX UP TO	2660 lm
EFFICACY UP TO	180 lm/W
ORDER CODE	5172



DALI-2 DIMMABLE MINI DRIVERS

**26 W DALI-2 DIMMABLE LED DRIVER**  
LC26MINI-DA-250-700

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- SELV output protection for safety and flexibility in luminaires
- Amplitude dimming for the highest quality light output
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Helvar Driver Configurator support
- Ideal solution for Class I and Class II



CONTROL	DALI-2
MAX. OUTPUT POWER	26 W
OUTPUT	Adjustable
OUTPUT CURRENT	250 (default) - 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	MINI, Indoor
LIFETIME	50 000 h
PRODUCT CODE	5906000



**26 W DALI-2 DIMMABLE LED DRIVER**  
LC26MINI-DA-250-700-SR

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- SELV output protection for safety and flexibility in luminaires
- Amplitude dimming for the highest quality light output
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Helvar Driver Configurator support
- Ideal solution for Class I, Class II and Class III (SELV) luminaires
- Integrated strain reliefs for independent installation



CONTROL	DALI-2
MAX. OUTPUT POWER	26 W
OUTPUT	Adjustable
OUTPUT CURRENT	250 (default) - 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50000 h
PRODUCT CODE	5908000



MINI DRIVERS

MINI DRIVERS



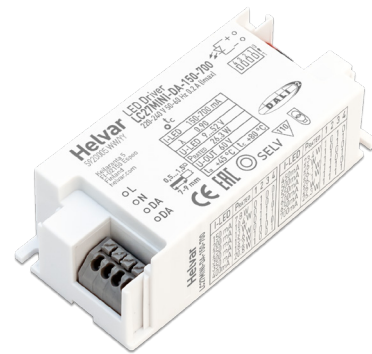
DALI-2 DIMMABLE MINI DRIVERS

**27 W DALI-2 DIMMABLE LED DRIVER**

LC27MINI-DA-150-700

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- SELV output protection for safety and flexibility in luminaires
- Amplitude dimming for the highest quality light output
- Low current ripple, complying with IEEE 1789 recommendation
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	DALI-2
MAX. OUTPUT POWER	26,3 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 - 700 (default) mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5920005



**38 W DALI-2 DIMMABLE LED DRIVER**

LC38MINI-DA-300-1050

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- SELV output protection for safety and flexibility in luminaires
- Amplitude dimming for the highest quality light output
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Current setting by dip-switch
- Compact dimensions for flexible usage
- Helvar Driver Configurator support
- Ideal solution for Class I and Class II



CONTROL	DALI-2
MAX. OUTPUT POWER	38 W
OUTPUT	Adjustable
OUTPUT CURRENT	300 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	MINI, Indoor
LIFETIME	50 000 h
PRODUCT CODE	5901000



DALI-2 DIMMABLE MINI DRIVERS

**38 W DALI-2 DIMMABLE LED DRIVER**

LC38MINI-DA-300-1050-SR

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- SELV output protection for safety and flexibility in luminaires
- Amplitude dimming for the highest quality light output
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Helvar Driver Configurator support
- Ideal solution for Class I, Class II and Class III (SELV) luminaires
- Integrated strain reliefs for independent installation



CONTROL	DALI-2
MAX. OUTPUT POWER	38 W
OUTPUT	Adjustable
OUTPUT CURRENT	300 - 1050 mA (default)
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50000 h
PRODUCT CODE	5900000

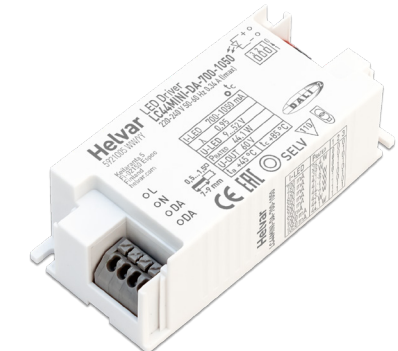


**44 W DALI-2 DIMMABLE LED DRIVER**

LC44MINI-DA-700-1050

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- SELV output protection for safety and flexibility in luminaires
- Amplitude dimming for the highest quality light output
- Low current ripple, complying with IEEE 1789 recommendation
- Current setting by dip-switch
- Compact dimensions for flexible usage
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	DALI-2
MAX. OUTPUT POWER	44,1 W
OUTPUT	Adjustable
OUTPUT CURRENT	700 - 1050 (default) mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5921005



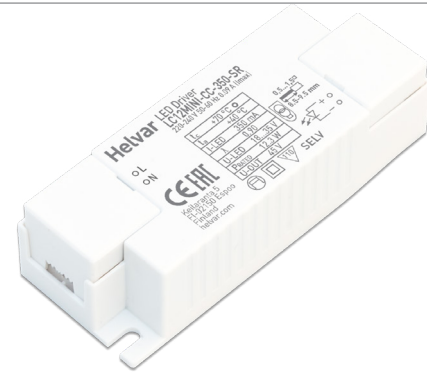
NON-DIMMABLE MINI DRIVERS

**12 W CONSTANT CURRENT LED DRIVER**

LC12MINI-CC-350-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Extremely compact dimensions for flexible usage
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	12 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5910005



NON-DIMMABLE MINI DRIVERS

**16 W CONSTANT CURRENT LED DRIVER**

LC16MINI-CC-350-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Extremely compact dimensions for flexible usage
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	16 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5912005



**12 W CONSTANT CURRENT LED DRIVER**

LC12MINI-CC-500-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Extremely compact dimensions for flexible usage
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	12 W
OUTPUT	Fixed
OUTPUT CURRENT	500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5911005



**16 W CONSTANT CURRENT LED DRIVER**

LC16MINI-CC-700-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Extremely compact dimensions for flexible usage
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	16 W
OUTPUT	Fixed
OUTPUT CURRENT	700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5913005





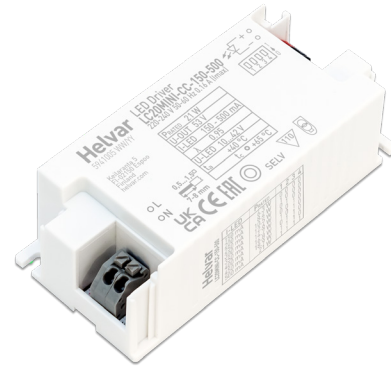
NON-DIMMABLE MINI DRIVERS

**20 W CONSTANT CURRENT LED DRIVER**

LC20MINI-CC-250-500

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	21 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 (default) - 500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5941005



NON-DIMMABLE MINI DRIVERS

**21 W CONSTANT CURRENT LED DRIVER**

LC21MINI-CC-700-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Extremely compact dimensions for flexible usage
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	21 W
OUTPUT	Fixed
OUTPUT CURRENT	700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5915005



**21 W CONSTANT CURRENT LED DRIVER**

LC21MINI-CC-500-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Extremely compact dimensions for flexible usage
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	21 W
OUTPUT	Fixed
OUTPUT CURRENT	500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5914005



**22 W CONSTANT CURRENT LED DRIVER**

LC22MINI-CC-125-500

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Current setting by dip-switch
- Compact dimensions for flexible usage
- Ideal solution for Class I and Class II luminaires



CONTROL	ON/OFF
MAX. OUTPUT POWER	22 W
OUTPUT	Adjustable
OUTPUT CURRENT	125 (default) - 500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	MINI, Indoor
LIFETIME	50000 h
PRODUCT CODE	5905000



NON-DIMMABLE MINI DRIVERS

**22 W CONSTANT CURRENT LED DRIVER**

LC22MINI-CC-125-500-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Ideal solution for Class I, Class II and Class III (SELV) luminaires
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	22 W
OUTPUT	Adjustable
OUTPUT CURRENT	125 (default) - 500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50000 h
PRODUCT CODE	5904000



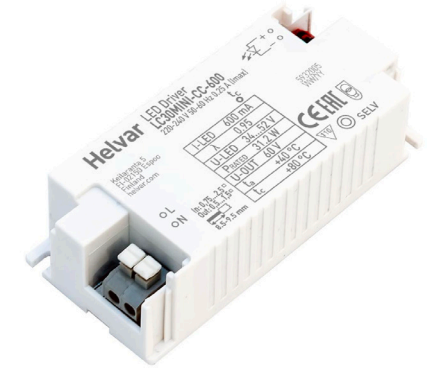
NON-DIMMABLE MINI DRIVERS

**30 W CONSTANT CURRENT LED DRIVER**

LC30MINI-CC-600

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	31,2 W
OUTPUT	Fixed
OUTPUT CURRENT	600 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5932005

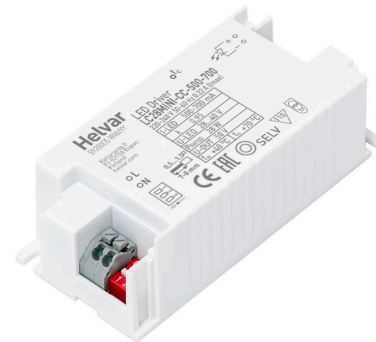


**28 W CONSTANT CURRENT LED DRIVER**

LC28MINI-CC-500-700

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Current setting by dip-switch
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	28 W
OUTPUT	Adjustable
OUTPUT CURRENT	500 (default) - 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5928005



**30 W CONSTANT CURRENT LED DRIVER**

LC30MINI-CC-700

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	29,7 W
OUTPUT	Fixed
OUTPUT CURRENT	700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5916005





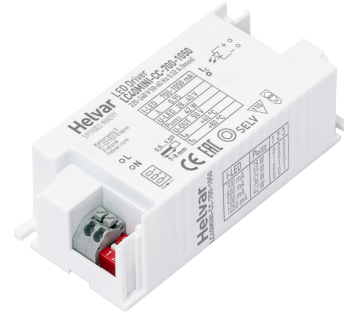
NON-DIMMABLE MINI DRIVERS

**40W CONSTANT CURRENT LED DRIVER**

LC40MINI-CC-700-1050

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Current setting by dip-switch
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	700 - 1050 mA (default)
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5919005



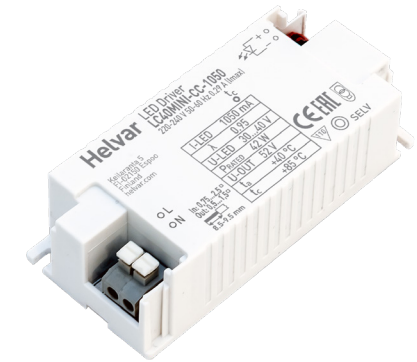
NON-DIMMABLE MINI DRIVERS

**40W CONSTANT CURRENT LED DRIVER**

LC40MINI-CC-1050

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	40 W
OUTPUT	Fixed
OUTPUT CURRENT	1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5917005

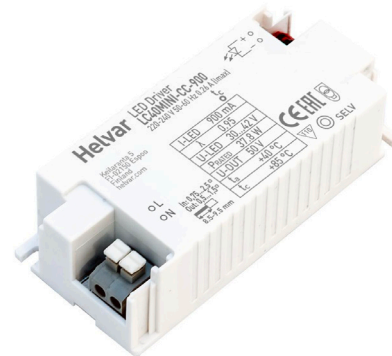


**40W CONSTANT CURRENT LED DRIVER**

LC40MINI-CC-900

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Extremely compact dimensions for flexible usage
- Ideal solution for Class I and Class II
- For driving Class III (SELV) luminaires, optional strain relief for independent use outside of luminaire (LC-SR-MINI, LC-SR-MINI-B)



CONTROL	ON/OFF
MAX. OUTPUT POWER	37,8 W
OUTPUT	Fixed
OUTPUT CURRENT	900 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50 000 h
PRODUCT CODE	5923005



**42W CONSTANT CURRENT LED DRIVER**

LC42MINI-CC-300-1050

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Ideal solution for Class I and Class II luminaires



CONTROL	ON/OFF
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	300 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II
DRIVER TYPE	MINI, Indoor
LIFETIME	50000 h
PRODUCT CODE	5903000



NON-DIMMABLE MINI DRIVERS

**42 W CONSTANT CURRENT LED DRIVER**

LC42MINI-CC-300-1050-SR

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Compact dimensions for flexible usage
- Current setting by dip-switch
- Ideal solution for Class I, Class II and Class III (SELV) luminaires
- Integrated strain reliefs for independent installation



CONTROL	ON/OFF
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	300 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	MINI, Indoor, Independent
LIFETIME	50000 h
PRODUCT CODE	5902000



SELV60

**25 W DALI-2 DIMMABLE LED DRIVER**

LL25SE-DA-120-500

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Helvar Driver Configurator support
- Approved for use in emergency lighting applications



CONTROL	DALI-2
MAX. OUTPUT POWER	25 W
OUTPUT	Adjustable
OUTPUT CURRENT	120 (default) - 500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5737000



**35 W DALI-2 DIMMABLE LED DRIVER**

LL35SE-DA-250-850

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Helvar Driver Configurator support
- Approved for use in emergency lighting applications



CONTROL	DALI-2
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable
OUTPUT CURRENT	250 (default) - 850 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5736000





SELV60

**50 W DALI-2 DIMMABLE LED DRIVER**  
LL50SE-DA-100-1400

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	100 (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5734000



SELV60

**80 W DIMMABLE LED DRIVER**  
LL80DS-DA-AN-350-1400

KEY FEATURES

- DALI and 1 - 10 V control input, 1 - 100 % dimming range
- Amplitude dimming for the highest quality light output
- Improved driver surge protection (4 kV / 4 kV)
- Current setting via dip-switches
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Helvar Driver Configurator support



CONTROL	DALI, 1-10V, ON/OFF
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5909000



**50 W DALI DIMMABLE LED DRIVER**  
LL1x50-E-DA-600-1400

KEY FEATURES

- DALI control input 2% - 100% dimming range
- Hybrid dimming technique for high quality light
- Switch-Control for easy-to-use intensity control
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI
MAX. OUTPUT POWER	50,4 W
OUTPUT	Adjustable
OUTPUT CURRENT	600 mA (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5542901



NON-ISOLATED

**42 W DALI-2 DIMMABLE LED DRIVER**  
LL1x10-42-CR-DA

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Filtered dimming for high-quality light in every application
- High efficiency up to 0.92
- Maximum output voltage limited to 250 V
- Switch-Control 2 for easy-to-use intensity control
- Protected up to 4 kV power network fast transients
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	120 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5721000





NON-ISOLATED

**42 W DALI DIMMABLE LED DRIVER**  
LL1x10-42-E-DA

KEY FEATURES

- DALI control input 1% - 100% dimming range
- Hybrid dimming technique for high quality light
- High efficiency up to 0.93
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Protected up to 4 kV power network fast transients
- Helvar Driver Configurator support



CONTROL	DALI
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	120 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5531000



**80 W DALI-2 DIMMABLE LED DRIVER**  
LL1x23-80-CR-DA

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Filtered dimming for high-quality light in every application
- Very high efficiency up to 0.95
- Switch-Control 2 for easy-to-use intensity control
- Protected up to 4 kV power network fast transients
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5723000



NON-ISOLATED

**80 W DALI-2 DIMMABLE LED DRIVER**  
LL1x80-CR-DA

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Filtered dimming for high-quality light in every application
- Very high efficiency up to 0.94
- Maximum output voltage limited to 250 V
- Switch-Control 2 for easy-to-use intensity control
- Protected up to 4 kV power network fast transients
- Approved for use in emergency lighting applications
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5559000



**80 W DALI DIMMABLE LED DRIVER**  
LL1x23-80-DA

KEY FEATURES

- DALI control input 1% - 100% dimming range
- Very high efficiency up to 0.95
- Protected up to 4 kV power network fast transients
- Switch-Control 2 for easy-to-use intensity control
- Approved for use in emergency lighting applications
- Helvar Driver Configurator support
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank



CONTROL	DALI
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	150 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5555000



NON-ISOLATED

**80 W DALI DIMMABLE LED DRIVER**  
LL1x80-DA-350-700

KEY FEATURES

- Hybrid dimming technique for high quality light
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Very high efficiency up to 0.94
- Protected up to 4 kV power network fast transients
- Approved for use in emergency lighting applications
- Helvar Driver Configurator support



CONTROL	DALI
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5556000



NON-ISOLATED

**110 W DALI DIMMABLE LED DRIVER**  
LL1x110-E-DA

KEY FEATURES

- DALI control input 1% - 100% dimming range
- Hybrid dimming technique for high quality light
- Protected up to 4 kV power network fast transients
- Switch-Control 2 for easy-to-use intensity control
- Very high efficiency up to 0.95
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI
MAX. OUTPUT POWER	110 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5532000



**110 W DALI-2 DIMMABLE LED DRIVER**  
LL1x110-CR-DA

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Filtered dimming for high-quality light in every application
- Very high efficiency up to 0.95
- Switch-Control 2 for easy-to-use intensity control
- Protected up to 4 kV power network fast transients
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	110 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5724000



**150 W DALI-2 DIMMABLE LED DRIVER**  
LL1x150-CR-DA

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Filtered dimming for high-quality light in every application
- Switch-Control 2 for easy-to-use intensity control
- High efficiency up to 0.93
- Protected up to 4 kV power network fast transients
- Suitable for DC use
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	150 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5720000





NON-DIMMABLE | SELV60

**18 W CONSTANT CURRENT LED DRIVER**

LL18SEC-CC-200-350



KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Current setting with dip-switch
- High efficiency up to 86 %
- Low current ripple, complying with IEEE 1789 recommendation
- Low inrush current
- Suitable for DC use

CONTROL	ON/OFF
MAX. OUTPUT POWER	18 W
OUTPUT	Selectable
OUTPUT CURRENT	200 / 250 / 300 / 350 mA (default)
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5925005



**25 W CONSTANT CURRENT LED DRIVER**

LL25SE-CC-150-500-NFC



KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- NFC technology for wireless programming
- High efficiency up to 88 %
- Very low current ripple, complying with IEEE 1789 recommendation
- Low inrush current
- Approved for use in emergency lighting applications

CONTROL	ON/OFF
MAX. OUTPUT POWER	25 W
OUTPUT	Selectable
OUTPUT CURRENT	150 / 250 / 350 / 500 mA (default)
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5774001



SELV60

**25 W CONSTANT CURRENT LED DRIVER**

LL25SE-CC-150-500

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	25 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	150 (default) - 500 mA / 350 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5770000

**35 W CONSTANT CURRENT LED DRIVER**

LL35SE-CC-250-850

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	250 (default) - 850 mA / 600 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5738001

SELV60

**35 W CONSTANT CURRENT LED DRIVER**  
LL35SE-CC-250-850-NFC

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Very Low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Active open load protection
- 350/500/700/850 mA fixed output currents and 250 - 850 mA current settable through NFC
- NFC technology for wireless programming



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	250 (default) - 850 mA / 600 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5773001



**50 W CONSTANT CURRENT LED DRIVER**  
LL50SE-CC-350-1400-NFC

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- NFC technology for wireless programming
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	50 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5771000



SELV60

**70 W CONSTANT CURRENT LED DRIVER**  
LL70DS-CC-350-1400

KEY FEATURES

- SELV output protection for safety and flexibility in luminaires
- Current setting via dip-switches
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications



CONTROL	ON/OFF
MAX. OUTPUT POWER	70 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5907000



**80 W CONSTANT CURRENT LED DRIVER**  
LL1x80-CC-1400-2100

KEY FEATURES

- High drive current capability, up to 2100 mA
- Dual SELV output terminals for parallel LED connection
- Protected up to 4 kV power network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Approved for use in emergency lighting applications



CONTROL	ON/OFF
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	1400 (default) - 2100 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5565001





NON-ISOLATED

**30 W CONSTANT CURRENT LED DRIVER**  
LL30HE-CC-300

KEY FEATURES

- Very high efficiency up to 0.91
- Very low current ripple, complying with IEEE 1789 recommendation
- Approved for use in emergency lighting applications
- Maximum output voltage limited to 250 V



CONTROL	ON/OFF
MAX. OUTPUT POWER	30 W
OUTPUT	Fixed
OUTPUT CURRENT	300 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5797000



NON-ISOLATED

**35 W CONSTANT CURRENT LED DRIVER**  
LL35HEC-CC-350

KEY FEATURES

- High efficiency up to 0.90
- Low current ripple, complying with IEEE 1789 recommendation
- Maximum output voltage limited to 350 V
- Low inrush current



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5795005



**35 W CONSTANT CURRENT LED DRIVER**  
LL35HEC-CC-300

KEY FEATURES

- High efficiency up to 0.90
- Low current ripple, complying with IEEE 1789 recommendation
- Maximum output voltage limited to 350 V
- Low inrush current



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Fixed
OUTPUT CURRENT	300 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5821005



**35 W CONSTANT CURRENT LED DRIVER**  
LL35HE-CC-350

KEY FEATURES

- Very high efficiency up to 0.92
- Very low current ripple, complying with IEEE 1789 recommendation
- Approved for use in emergency lighting applications
- Maximum output voltage limited to 250 V



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5727000



NON-ISOLATED

**35 W CONSTANT CURRENT LED DRIVER**  
LL35HE-CC-120-450

KEY FEATURES

- Very high efficiency up to 0.93
- Very low current ripple, complying with IEEE 1789 recommendation
- Approved for use in emergency lighting applications
- Maximum output voltage limited to 250 V
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable
OUTPUT CURRENT	120 (default) - 450 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5725000



**42 W CONSTANT CURRENT LED DRIVER**  
LL1x10-42-E-CC

KEY FEATURES

- Very high efficiency up to 0.94
- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	120 (default) - 350 mA / 120, 140 or 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5527000



NON-ISOLATED

**42 W CONSTANT CURRENT LED DRIVER**  
LL1x10-42-CC-350-700

KEY FEATURES

- High efficiency up to 0.91
- Protected up to 4 kV network fast transients
- Maximum output voltage limited to 250 V
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	42 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5722001



**65 W CONSTANT CURRENT LED DRIVER**  
LL65HE-CC-250-700

KEY FEATURES

- Very high efficiency up to 0.93
- Very low current ripple, complying with IEEE 1789 recommendation
- Approved for use in emergency lighting applications
- Maximum output voltage limited to 250 V
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	65 W
OUTPUT	Adjustable
OUTPUT CURRENT	250 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5726000





NON-ISOLATED

**65 W CONSTANT CURRENT LED DRIVER**  
LL65HE-CC-175-350-DS

KEY FEATURES

- Very high efficiency up to 94%
- Very low current ripple, complying with IEEE 1789 recommendation
- Current set 175/250/300/350 mA via dip-switches
- Suitable for use in emergency lighting applications
- Maximum output voltage limited to 250 V



CONTROL	ON/OFF
MAX. OUTPUT POWER	65 W
OUTPUT	Selectable
OUTPUT CURRENT	175 mA / 250 mA / 300 mA / 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	Coming Soon



NON-ISOLATED

**80 W CONSTANT CURRENT LED DRIVER**  
LL1x23-80-E-CC

KEY FEATURES

- Very high efficiency up to 0.95
- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	150 (default) - 350 mA / 150, 200 or 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5528000



**65 W CONSTANT CURRENT LED DRIVER**  
LL65HEC-CC-200-350

KEY FEATURES

- Very high efficiency up to 93%
- Very low current ripple, complying with IEEE 1789 recommendation
- Current setting via dip-switches
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	65 W
OUTPUT	200 / 250 / 300 / 350 mA
OUTPUT CURRENT	Selectable
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5926005



**80 W CONSTANT CURRENT LED DRIVER**  
LL80HEC-CC-200-350

KEY FEATURES

- Very high efficiency up to 94 %
- Low current ripple, complying with IEEE 1789 recommendation, complying with IEEE 1789 recommendation
- Selectable current output via dip-switch
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	80 W
OUTPUT	Selectable
OUTPUT CURRENT	200 / 250 / 300 / 350 mA (default)
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5933005



NON-ISOLATED

**80 W CONSTANT CURRENT LED DRIVER**  
LL1x80-E-CC-350-700

KEY FEATURES

- Very high efficiency up to 0.94
- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	80 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5535000



NON-ISOLATED

**110 W CONSTANT CURRENT LED DRIVER**  
LL1x110-E-CC-200-350

KEY FEATURES

- Very high efficiency up to 0.95
- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	110 W
OUTPUT	Adjustable
OUTPUT CURRENT	200 (default) - 350 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5538001



**100 W CONSTANT CURRENT LED DRIVER**  
LL100HE-CC-250-700

KEY FEATURES

- Very high efficiency up to 94%
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Maximum output voltage limited to 250 V
- Active open load protection
- Improved surge protection up to 4 kV



CONTROL	ON/OFF
MAX. OUTPUT POWER	100 W
OUTPUT	Adjustable
OUTPUT CURRENT	250 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5799000



**110 W CONSTANT CURRENT LED DRIVER**  
LL1x110-E-CC-350-700

KEY FEATURES

- Very high efficiency up to 0.95
- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	110 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5550001





NON-ISOLATED

**150 W CONSTANT CURRENT LED DRIVER**  
LL150HE-CC-350-700-DS

KEY FEATURES

- Very high efficiency up to 94%
- Very Low current ripple, complying with IEEE 1789 recommendation
- Current set 350-700 mA via dip-switch (50 mA current steps)
- Suitable for use in emergency lighting applications
- Wide 100 V - 350 V voltage range



CONTROL	ON/OFF
MAX. OUTPUT POWER	150 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 mA - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	Coming Soon

BASIC ISOLATED

**21 W CONSTANT CURRENT LED DRIVER**  
LL1x21-CC

KEY FEATURES

- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	21 W
OUTPUT	Selectable
OUTPUT CURRENT	300 mA / 350 mA
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5718011



**150 W CONSTANT CURRENT LED DRIVER**  
LL1x150-E-CC

KEY FEATURES

- Very high efficiency up to 0.96
- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	150 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5551000



**26 W CONSTANT CURRENT LED DRIVER**  
LL1x26-CC

KEY FEATURES

- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	26 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5547000



BASIC ISOLATED

**38 W CONSTANT CURRENT LED DRIVER**  
LL38BI-CC-300

KEY FEATURES

- High efficiency up to 88 %
- Low current ripple, complying with IEEE 1789 recommendation, complying with IEEE 1789 recommendation
- Maximum output voltage limited to 150 V
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	38 W
OUTPUT	Fixed
OUTPUT CURRENT	300 mA
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5940005



BASIC ISOLATED

**38 W CONSTANT CURRENT LED DRIVER**  
LL1x38-CC-350

KEY FEATURES

- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	38 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5547000



**38 W CONSTANT CURRENT LED DRIVER**  
LL1x38-CC-350/300

KEY FEATURES

- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	38,5 W
OUTPUT	Selectable
OUTPUT CURRENT	300 mA / 350 mA
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5730011



**40 W CONSTANT CURRENT LED DRIVER**  
LL40BI-CC-350

KEY FEATURES

- High efficiency up to 88 %
- Low current ripple, complying with IEEE 1789 recommendation, complying with IEEE 1789 recommendation
- Maximum output voltage limited to 125 V
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	39.2 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA (default)
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5927005





BASIC ISOLATED

**54 W CONSTANT CURRENT LED DRIVER**  
LL1x54-CC-350

KEY FEATURES

- Protected up to 4 kV network fast transients
- Low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	54 W
OUTPUT	Fixed
OUTPUT CURRENT	350 (default)
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5717011

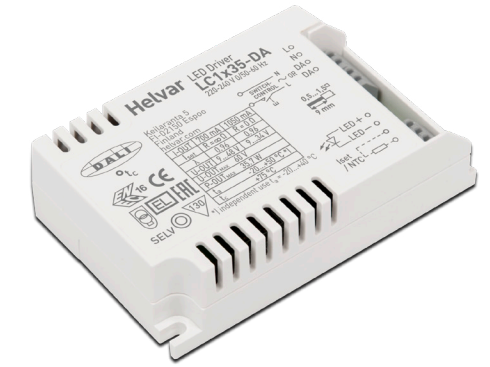


SELV60

**35 W DALI DIMMABLE LED DRIVER**  
LC1x35-DA

KEY FEATURES

- DALI control input 1% - 100% dimming range
- Hybrid dimming technique for high quality light
- Adjustable constant current output, with LEDset resistor values
- Switch-Control for easy-to-use intensity control
- Protected up to 4 kV network fast transients
- Approved for use in emergency lighting applications
- Intelligent features: Current setting by software, Constant Light Output (CLO), Data memory bank
- Optional strain relief for independent use
- Helvar Driver Configurator support



CONTROL	DALI
MAX. OUTPUT POWER	35,7 W
OUTPUT	Adjustable
OUTPUT CURRENT	700 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5564000



**80 W CONSTANT CURRENT LED DRIVER**  
LL80BI-CC-300/350

KEY FEATURES

- Current setting via dip-switches
- High efficiency up to 92 %
- Low current ripple, complying with IEEE 1789 recommendation, complying with IEEE 1789 recommendation
- Maximum output voltage limited to 300 V
- Suitable for DC use



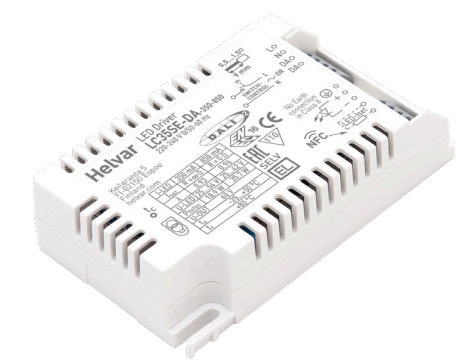
CONTROL	ON/OFF
MAX. OUTPUT POWER	80 W
OUTPUT	Selectable
OUTPUT CURRENT	300 / 350 mA (default)
OUTPUT PROTECTION	Basic isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	100 000 h
ORDER CODE	5924005



**35 W DALI-2 DIMMABLE LED DRIVER**  
LC35SE-DA-350-850

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Approved for use in emergency lighting
- Optional strain relief for independent use
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 850 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5739000



SELV60

**35 W DALI-2 DIMMABLE LED DRIVER**  
LC35SE-DA-350-850-LOOP

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Optimised driver mechanics for independent usage applications
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables
- Helvar Driver Configurator support



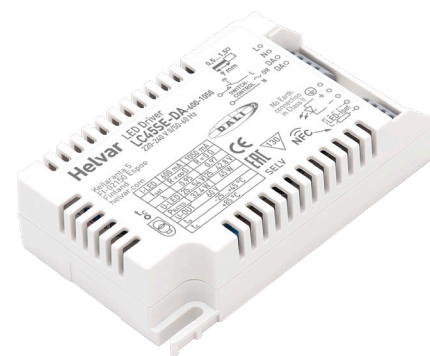
CONTROL	DALI-2
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 850 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	100 000 h
ORDER CODE	5749000



**45 W DALI-2 DIMMABLE LED DRIVER**  
LC45SE-DA-600-1050

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Optional strain relief for independent use
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	45 W
OUTPUT	Adjustable
OUTPUT CURRENT	600 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5733000

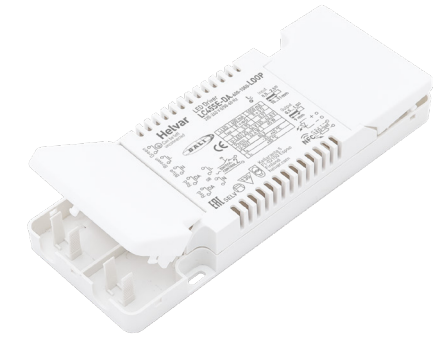


SELV60

**45 W DALI-2 DIMMABLE LED DRIVER**  
LC45SE-DA-600-1050-LOOP

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Optimised driver mechanics for independent usage applications
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	45 W
OUTPUT	Adjustable
OUTPUT CURRENT	600 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	100 000 h
ORDER CODE	5743000



**51 W DALI-2 DIMMABLE LED DRIVER**  
LC51SE-DA-900-1400-LOOP

KEY FEATURES

- DALI-2 certified LED driver, 1-100 % dimming range
- Amplitude dimming for the highest quality light output
- NFC technology for wireless programming
- Switch-Control 2 for easy-to-use intensity control
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Optimised driver mechanics for independent usage applications
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables
- Helvar Driver Configurator support



CONTROL	DALI-2
MAX. OUTPUT POWER	51 W
OUTPUT	Adjustable
OUTPUT CURRENT	900 (default) - 1400 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	100 000 h
ORDER CODE	5741000





SELV120

**30 W DALI DIMMABLE LED DRIVER**  
LC1x30-E-DA

KEY FEATURES

- DALI control input 1% - 100% dimming range
- Protected up to 4 kV network fast transients
- Switch-Control for easy-to-use intensity control
- Optional strain relief for independent use



CONTROL	DALI
MAX. OUTPUT POWER	30 W
OUTPUT	Selectable
OUTPUT CURRENT	350 mA, 500 mA or 700 mA
OUTPUT PROTECTION	SELV120
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5502000

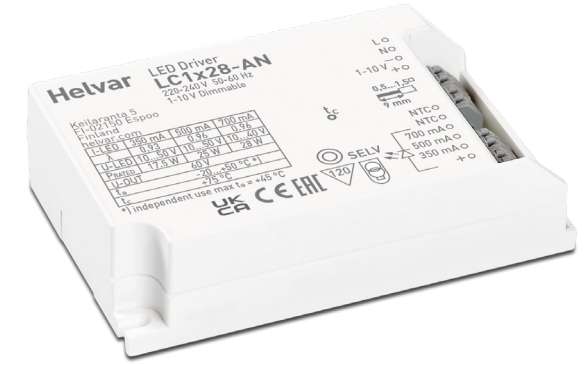


1-10 V DIMMABLE

**28 W 1-10 V DIMMABLE LED DRIVER**  
LC1x28-AN

KEY FEATURES

- Smooth 1-10 V dimming 1% - 100%
- Protected up to 4 kV power network fast transients
- Optional strain relief for independent use



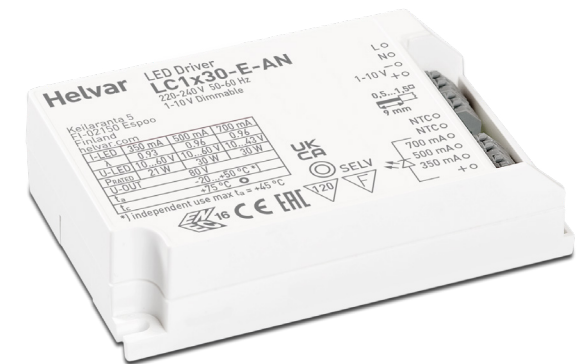
CONTROL	1-10 V
MAX. OUTPUT POWER	28 W
OUTPUT	Selectable
OUTPUT CURRENT	350 mA, 500 mA or 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5714000



**30 W 1-10 V DIMMABLE LED DRIVER**  
LC1x30-E-AN

KEY FEATURES

- Smooth 1-10 V dimming 1% - 100%
- Protected up to 4 kV network fast transients
- Optional strain relief for independent use



CONTROL	1-10 V
MAX. OUTPUT POWER	30 W
OUTPUT	Selectable
OUTPUT CURRENT	350 mA, 500 mA or 700 mA
OUTPUT PROTECTION	SELV120
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5504004



NON-DIMMABLE | SELV60

**12 W CONSTANT CURRENT LED DRIVER**  
LL1x12-E-CC-350

KEY FEATURES

- Suitable for independent use
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	12 W
OUTPUT	Fixed
OUTPUT CURRENT	350 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	50 000 h
ORDER CODE	5580000



**15 W CONSTANT CURRENT LED DRIVER**  
LL1x15-E-CC-500

KEY FEATURES

- Suitable for independent use
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	15 W
OUTPUT	Fixed
OUTPUT CURRENT	500 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	50 000 h
ORDER CODE	5582000



SELV60

**25 W CONSTANT CURRENT LED DRIVER**  
LC1x25-CC

KEY FEATURES

- Adjustable constant current output
- Duplicated mains connection terminal
- Protected up to 4 kV network fast transients
- Approved for use in emergency lighting applications
- Optional strain relief for independent use
- Complies with LEDset interface specification



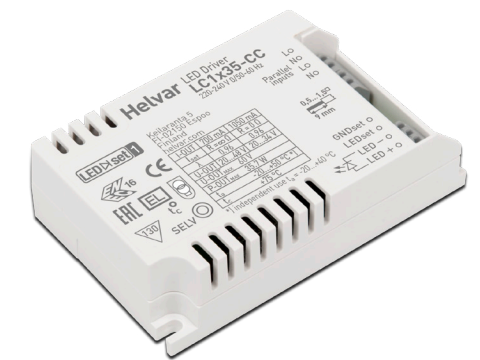
CONTROL	ON/OFF
MAX. OUTPUT POWER	25,2 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5549000



**35 W CONSTANT CURRENT LED DRIVER**  
LC1x35-CC

KEY FEATURES

- Adjustable constant current output
- Duplicated mains connection terminal
- Protected up to 4 kV network fast transients
- Approved for use in emergency lighting applications
- Optional strain relief for independent use
- Complies with LEDset interface specification



CONTROL	ON/OFF
MAX. OUTPUT POWER	35,7 W
OUTPUT	Adjustable
OUTPUT CURRENT	700 (default) - 1050 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5548000



COMPACT DRIVERS

COMPACT DRIVERS

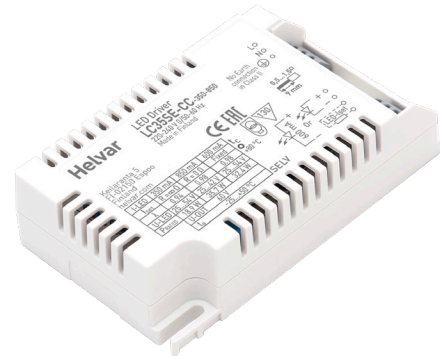


SELV60

**35 W CONSTANT CURRENT LED DRIVER**  
LC35SE-CC-350-850

KEY FEATURES

- Very low current ripple, complying with IEEE 1789 recommendation
- Adjustable constant current output
- Active open load protection
- Optional strain relief for independent use
- Suitable for DC use
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	350 (default) - 850 mA / 600 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5732000



**35 W CONSTANT CURRENT LED DRIVER**  
LC35SE-CC-350-850-LOOP

KEY FEATURES

- Optimised driver mechanics for independent usage applications
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	35 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	350 (default) - 850 mA / 600 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	100 000 h
ORDER CODE	5748000



SELV60

**45 W CONSTANT CURRENT LED DRIVER**  
LC45SE-CC-600-1050

KEY FEATURES

- Very low current ripple, complying with IEEE 1789 recommendation
- Adjustable constant current output
- Suitable for DC use
- Active open load protection
- Optional strain relief for independent use



CONTROL	ON/OFF
MAX. OUTPUT POWER	45 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	600 (default) - 1050 mA / 800 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5731000



**45 W CONSTANT CURRENT LED DRIVER**  
LC45SE-CC-600-1050-LOOP

KEY FEATURES

- Optimised driver mechanics for independent usage applications
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Active open load protection



CONTROL	ON/OFF
MAX. OUTPUT POWER	45 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	600 (default) - 1050 mA / 800 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	100 000 h
ORDER CODE	5742000



SELV60

**51 W CONSTANT CURRENT LED DRIVER**  
LC51SE-CC-900-1400-LOOP

KEY FEATURES

- Optimised driver mechanics for independent usage applications
- Integrated spacious strain reliefs with screwless clamps, quick and simple installation process
- Doubled input terminals for looping the mains cables
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for DC use
- Active open load protection



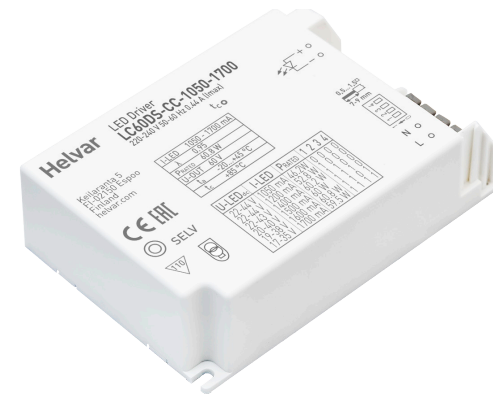
CONTROL	ON/OFF
MAX. OUTPUT POWER	51 W
OUTPUT	Adjustable / Fixed
OUTPUT CURRENT	900 (default) - 1400 mA / 1200 mA
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact, Independent
LIFETIME UP TO	100 000 h
ORDER CODE	5740000



**60 W CONSTANT CURRENT LED DRIVER**  
LC60DS-CC-1050-1700

KEY FEATURES

- Very Low current ripple, complying with IEEE 1789 recommendation, complying with IEEE 1789 recommendation
- Current setting via with dip-switches
- High efficiency up to 90 %
- Suitable for DC use
- Optional strain relief for independent use



CONTROL	DALI-2
MAX. OUTPUT POWER	60.2 W
OUTPUT	Adjustable
OUTPUT CURRENT	1050 - 1700 mA (default)
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5935005



SELV120

**30 W CONSTANT CURRENT LED DRIVER**  
LC1x30-E-CC

KEY FEATURES

- Protected up to 4 kV power network fast transients
- Available with protective coating
- Optional strain relief for independent use



CONTROL	ON/OFF
MAX. OUTPUT POWER	30 W
OUTPUT	Selectable
OUTPUT CURRENT	350 mA, 500 mA or 700 mA
OUTPUT PROTECTION	SELV120
LUMINAIRE CLASS	I, II, III
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5503000



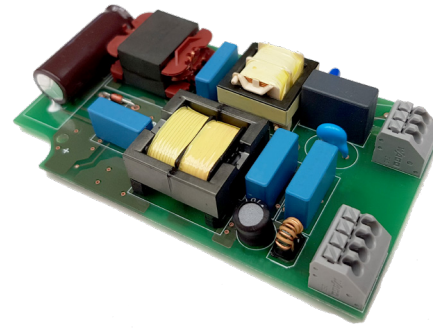


NON-ISOLATED

**110 W CONSTANT CURRENT LED DRIVER**  
LC110HE-CC-350-700-IND-PCB

KEY FEATURES

- PCB only model
- Very high efficiency up to 95%
- Low current ripple, complying with IEEE 1789 recommendation
- Improved driver surge protection (4 kV / 4 kV)
- Wide ambient temperature operation range
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	110 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5796900



**150 W CONSTANT CURRENT LED DRIVER**  
LC150HE-CC-350-700-IND

KEY FEATURES

- Very high efficiency up to 0.96
- Low current ripple, complying with IEEE 1789 recommendation
- Improved driver surge protection (4 kV / 4 kV)
- Wider ambient temperature operation range
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	150 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5729000



NON-ISOLATED

**165 W CONSTANT CURRENT LED DRIVER**  
LC165HE-CC-350-700-IND-PCB

KEY FEATURES

- PCB only model
- Very high efficiency up to 96%
- Low current ripple, complying with IEEE 1789 recommendation
- Improved driver surge protection (4 kV / 4 kV)
- Wider ambient temperature operation range
- Suitable for DC use



CONTROL	ON/OFF
MAX. OUTPUT POWER	165 W
OUTPUT	Adjustable
OUTPUT CURRENT	350 (default) - 700 mA
OUTPUT PROTECTION	Non-isolated
LUMINAIRE CLASS	I, II
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	100 000 h
ORDER CODE	5729801



CONSTANT VOLTAGE

## DIMMABLE CONSTANT VOLTAGE SOLUTION FOR DECORATIVE LIGHTING

Create the most stunning atmospheres with indirect lighting. Or upgrade your beautiful space with amazing decorative lighting.

Constant voltage LED strips bring flexibility to lighting design. LED strips can be folded and length is easily modified for each use.

The products in this solution have system standby power amongst the lowest on the market, as well as the high voltage (24 V) power supply that helps greatly to reduce power loss over the LED strips, making the solution very energy efficient.



## FREEDOM LED DRIVER EXTENSION LL4-CV-FD

KEY FEATURES

- Wireless Freedom extension unit for constant voltage LED drivers
- Future-proof Freedom control input, 0.1%-100% dimming range
- Stand-by power < 0.1 W
- Duplicated output terminals for optional parallel connection
- Optional strain relief for independent use



CONTROL	FREEDOM Wireless
MAX. OUTPUT POWER	120 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 5 A
OUTPUT PROTECTION	Depends on CV power supply
LUMINAIRE CLASS	Depends on CV power supply
DRIVER TYPE	Indoor, Compact
ORDER CODE	Coming up



CONSTANT VOLTAGE

## CONSTANT VOLTAGE LED DRIVER EXTENSION DALI LL1-CV-DA

KEY FEATURES

- DALI extension unit for constant voltage LED driver
- DALI control input, 0.1% - 100% dimming range
- Stand-by power < 0.1 W
- Duplicated output terminals for optional parallel connection
- Linear enclosure with an integrated strain relief
- 2 kHz PWM dimming frequency, complies with IEEE 1789-2015 recommendations



CONTROL	DALI
MAX. OUTPUT POWER	120 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 5 A
OUTPUT PROTECTION	Depends on CV power supply
LUMINAIRE CLASS	Depends on CV power supply
DRIVER TYPE	Indoor, Linear
ORDER CODE	5700004



## CONSTANT VOLTAGE LED DRIVER EXTENSION SWITCH-CONTROL LL1-CV-SC

KEY FEATURES

- Switch-Control extension unit for constant voltage LED driver
- Switch-Control (DC) input, 0.1% - 100% dimming range
- Stand-by power < 0.1 W
- Duplicated output terminals for optional parallel connection
- Linear enclosure with an integrated strain relief



CONTROL	SWITCH-CONTROL
MAX. OUTPUT POWER	120 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 5 A
OUTPUT PROTECTION	Depends on CV power supply
LUMINAIRE CLASS	Depends on CV power supply
DRIVER TYPE	Indoor, Linear
ORDER CODE	5701004



SELV60

**30 W CONSTANT VOLTAGE LED DRIVER**  
LL1x30-CV12

KEY FEATURES

- 12 V constant voltage output
- Suitable for independent use
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	30 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 2.5 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	30 000 h
ORDER CODE	5573000



**75 W CONSTANT VOLTAGE LED DRIVER**  
LL1x75-CV12

KEY FEATURES

- 12 V constant voltage output
- Suitable for independent use
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	75 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 6.25 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	30 000 h
ORDER CODE	5574000



SELV60

**30 W CONSTANT VOLTAGE LED DRIVER**  
LL1x30-E-CV24

KEY FEATURES

- 24 V constant voltage output
- Suitable for independent use
- Linear enclosure with an integrated strain relief



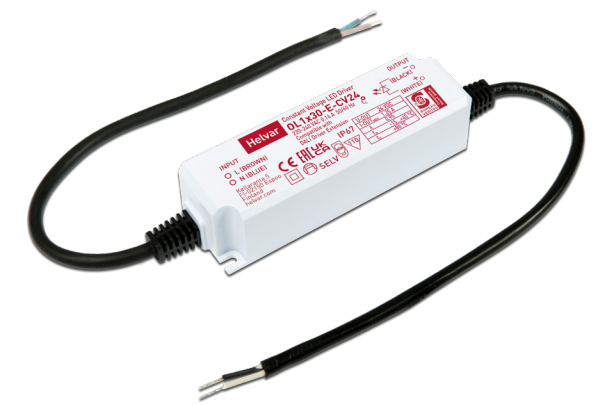
CONTROL	ON/OFF
MAX. OUTPUT POWER	30 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 1.25 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	30 000 h
ORDER CODE	5587000



**30 W OUTDOOR LED DRIVER**  
OL1x30-E-CV24

KEY FEATURES

- 24 V constant voltage output
- Suitable for independent use
- Suitable for outdoor use IP67
- Double insulated enclosure



CONTROL	ON/OFF
MAX. OUTPUT POWER	30 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 1.25 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Outdoor, Compact
LIFETIME UP TO	30 000 h
ORDER CODE	5536000





SELV60

**75 W CONSTANT VOLTAGE LED DRIVER**  
LL1x75-E-CV24

KEY FEATURES

- 24 V constant voltage output
- Suitable for independent use
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	75 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 3.25 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	30 000 h
ORDER CODE	5588000



**75 W OUTDOOR LED DRIVER**  
OL1x75-E-CV24

KEY FEATURES

- 24 V constant voltage output
- Suitable for independent use
- Suitable for outdoor use IP67
- Double insulated enclosure



CONTROL	ON/OFF
MAX. OUTPUT POWER	75 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 3.125 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Outdoor, Linear
LIFETIME UP TO	30 000 h
ORDER CODE	5534000



SELV60

**120 W CONSTANT VOLTAGE LED DRIVER**  
LL1x120-CV24

KEY FEATURES

- 24 V constant voltage output
- Suitable for independent use
- Double insulated enclosure
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	120 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 5 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Indoor, Compact
LIFETIME UP TO	30 000 h
ORDER CODE	5576000



**180 W CONSTANT VOLTAGE LED DRIVER**  
LL1x180-CV24

KEY FEATURES

- 24 V constant voltage output
- Suitable for independent use
- Double insulated enclosure
- Linear enclosure with an integrated strain relief



CONTROL	ON/OFF
MAX. OUTPUT POWER	180 W
OUTPUT	Constant Voltage
OUTPUT CURRENT	Max. 7.5 A
OUTPUT PROTECTION	SELV60
LUMINAIRE CLASS	I, II, III, Independent
DRIVER TYPE	Indoor, Linear
LIFETIME UP TO	30 000 h
ORDER CODE	5591000



ACCESSORIES

**BE MORE INDEPENDENT**

Are you planning to install drivers outside a light fitting? Take a look at our accessory strain reliefs and make your luminaire a safe option for independent usage.

**Say no to screws**

The latest innovation is our smart SRA Series for compact drivers, which match perfectly to most of our compact drivers. These strain reliefs are **superquick to install without a single screw**. They also offer LOOP - a possibility for looping input cables straight to the driver and out to the next. To LOOP or not to LOOP? You make the decision. We offer the possibility. Just click and go.



**LC-SRA / LC-SRB / LC-SRC STRAIN RELIEF  
LC-SRA-LOOP / LC-SRB-LOOP LOOPING STRAIN RELIEF**

- Strain reliefs for easy independent installation of Helvar plastic case compact drivers
- Driver cross-section dimensions
- Click on mechanics
- Screwless cable clamps supporting various cable thicknesses (0.5 - 2.5 mm<sup>2</sup>)
- LOOP version with extra connector for looping of the input cables



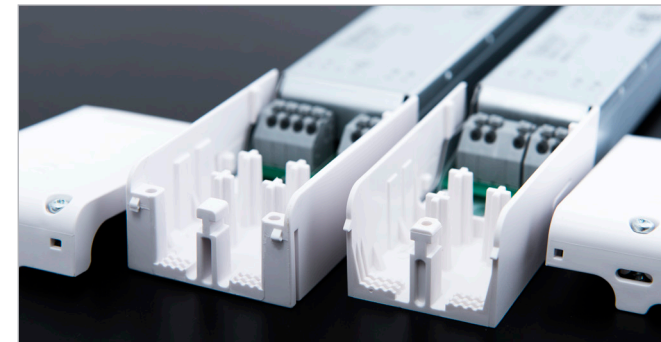
**LC-SR-MINI STRAIN RELIEF**

- For easy independent installation of Helvar MINI drivers
- Click on mechanics
- Robust and easy construction



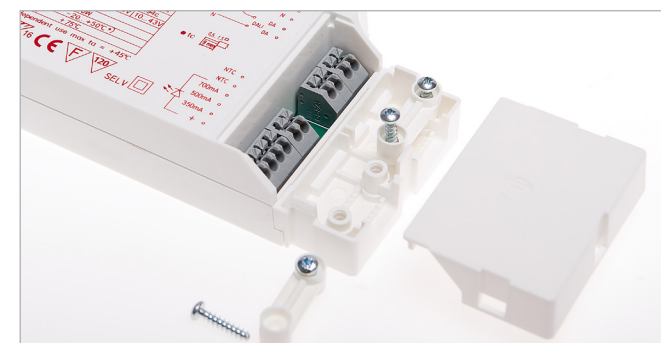
**LC-SR-MINI-B STRAIN RELIEF**

- For easy independent installation of Helvar MINI drivers
- Click on mechanics
- Screwless cable clamps supporting various cable thicknesses
- Robust and easy construction



**LL1x2130-SR / LL1x2135-SR  
STRAIN RELIEF**

- For 30 mm or 35 mm wide metal case Helvar LED drivers
- Easy installation
- Sturdy structure, compatible with cables for different thickness



**LC1x30-SR STRAIN RELIEF**

- For Helvar LC1x30 and SE series compact drivers
- Fully adjustable cable tightening
- Robust and easy construction



**LC1x70-SR STRAIN RELIEF**

- For Helvar LC1x50 and LC1x70 compact drivers
- For Helvar compact iC Tunable White drivers
- Allows independent driver usage
- Screws for internal cable clamps included
- Cable clamps allowing different cable thicknesses

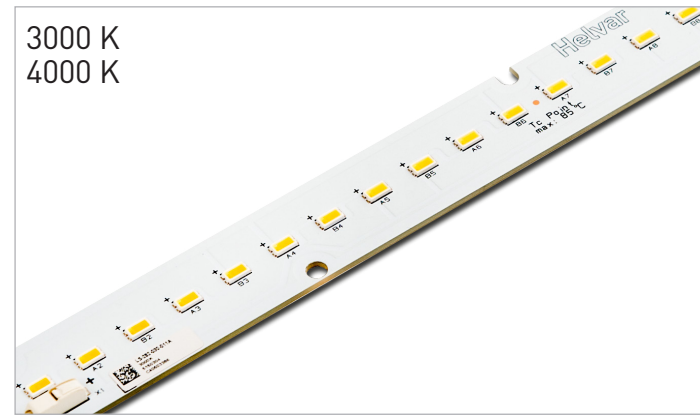


LED MODULES

**LS & LS20 SERIES**  
LINEAR LED MODULES

KEY FEATURES

- High efficacy up to 169 lm/W (LS) and 182 lm/W (LS20) (at Tc = 25 °C)
- Homogenous light distribution, 11.5 mm (LS) or 9.3 mm (LS20) pitch between LEDs
- Accurate initial colour consistency of MacAdam (SDCM) 3-step
- High colour rendering index CRI > 80
- LS with Zhaga compliant dimensions
- LS20 with arrow width of 20 mm to suit various applications
- Easy connection with push-in connectors
- Modular product platform for design flexibility
- Easy installation
- Compatible holder and optics solutions available

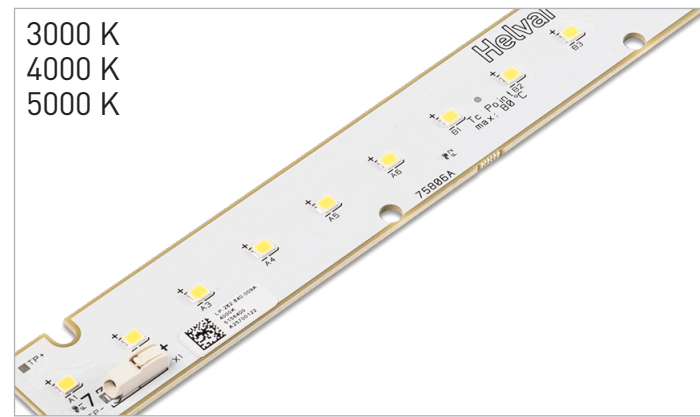


LS only

**LP SERIES**  
LINEAR LED MODULES

KEY FEATURES

- High value linear module
- High efficacy up to 170 lm/W (at Tc = 65 °C)
- Homogenous light distribution, pitch 15,6 mm between LEDs
- Accurate initial colour consistency of MacAdam (SDCM) 3-step
- Modular product platform for design flexibility
- Designed for easy installation and series connection
- Zhaga compliant dimensions
- Compatible holder and optics solutions available



**LX SERIES**  
LINEAR LED MODULES

KEY FEATURES

- High lumen output up to 5950 lm
- Very high efficacy up to 176 lm/W (at Tc = 65 °C)
- Extremely homogenous light distribution, only 6.4 mm pitch between LEDs
- Accurate initial colour consistency of MacAdam (SDCM) 3-step
- High colour rendering index CRI > 80
- Zhaga compliant dimensions
- Easy connection with push-in connectors
- Modular product platform for design flexibility
- Easy installation
- Compatible holder and optics solutions available



**LiC & LiC20 SERIES**  
TUNABLE WHITE LED MODULES

KEY FEATURES

- Tunable White module, adjustable colour temperature 2700 K to 6500 K
- High efficacy, up to 202 lm/W at Tc = 25 °C
- Accurate colour matching (SDCM), 3-step MacAdam
- High colour rendering index CRI > 80
- Easy connection with push-in connectors
- Easy installation
- Perfect fit for Helvar iC LED Drivers
- Compatible holder and optics solutions available
- See also LDL-iC Tunable White module



**LZ SERIES**  
LINEAR LED MODULES

KEY FEATURES

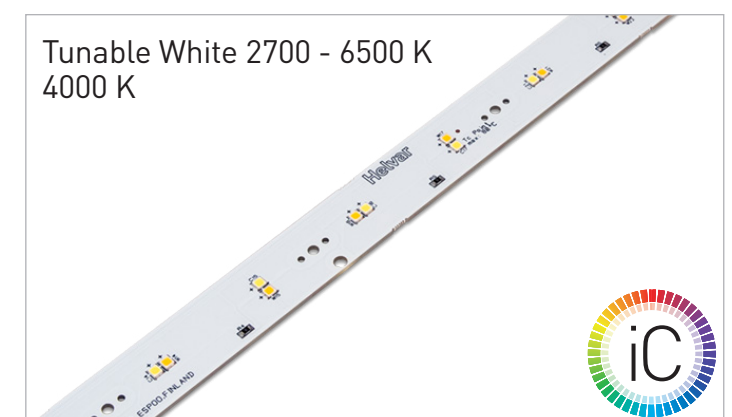
- High value modules with 390, 490 or 540 mm length
- High efficacy up to 173 lm/W (at Tc = 65 °C)
- Homogenous light distribution with pitch varying according to model
- Accurate initial colour consistency of MacAdam (SDCM) 3-step
- Modular product platform for design flexibility
- Designed for easy installation and series connection
- Compatible holder and optics solutions available



**LDL / LDL-IC SERIES**  
LEDiL DAISY COMPATIBLE LED MODULES

KEY FEATURES

- Tunable White module, adjustable colour temperature 2700 K to 6500 K
- 4000K neutral white module
- High efficacy up to 191 lm/W at Tc = 25 °C
- Accurate colour matching (SDCM), 3-step MacAdam
- High colour rendering index CRI > 80
- Easy connection with push-in connectors
- Easy installation
- Ideal solution for LEDiL DAISY-4X1 optics and DAISY-28X1 shade



LEDiL





LED MODULES

	LP SERIES			LS SERIES			LS20 SERIES			LZ SERIES		
CCTs	3000 K 4000 K 5000 K			3000 K 4000 K			3000 K 4000 K			4000 K		
Nominal forward current [mA]	350 mA (450 mA max)			350 mA (450 mA max)			350 mA (450 mA max)			500 mA (600 mA max)		
Series modules	LP-142A	LP-282A	LP-562A	LS-142A	LS-282A	LS-562A	LS20-142-800lm	LS20-282-1500lm	LS20-562-3100lm	LZ-392A	LZ-492A	LZ-542A
Typ. lumen output range @ T <sub>p</sub> temp. [lm]	310 - 550	630 - 1100	1260 - 2200	445 - 810	890 - 1620	1780 - 3240	550 - 1010	1100 - 2000	2200 - 4000	1150 - 1860	1310 - 2140	1470 - 2410
Typical forward voltage	8.7 V	17.5 V	34.9 V	11.8 V	23.6 V	47.2 V	14.3 V	28.7 V	57.3 V	20.4 V	23.3 V	26.3 V
Typical efficacy [lm / W] *@ T <sub>c</sub> = 25 °C	170	170	170	169	169	169	173	173	173	173	173	173
LED chips	9	18	36	12	24	48	15	30	60	28	32	36
Length [mm]	140	280	560	140	280	560	140	280	560	390	490	540
Width [mm]	24	24	24	24	24	24	20	20	20	24	24	24
Height [mm]	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

	LX SERIES			LiC & LiC20 SERIES					LDL SERIES	
CCTs	3000 K 4000 K 5000 K			Tunable White 2700 - 6500 K					Tunable White 2700-6500 K	4000 K
Nominal forward current [mA]	450 mA (600 mA max)			450 mA		800 mA			600 mA	1200 mA
Series modules	LX-142A	LX-282A	LX-562A	LiC-282	LiC-562	LiC20-142	LiC20-282	LiC20-562	LDL-iC-562	LDL-562
Typ. lumen output range @ T <sub>p</sub> temp. [lm]	780 - 1360	1710 - 2970	3420 - 5950	710 - 1490	1420 - 2980	360 - 1170	550 - 1750	1100 - 3500	1330 - 2660	3700 - 3960
Typical forward voltage	14.3 V	31.4 V	62.7 V	13,7	27,4	5,5	8,3	16,5	19,8	21,2
Typical efficacy [lm / W] *@ T <sub>c</sub> = 25 °C	176	176	176	192	192	188	188	188	180	154
LED chips	20	44	88	40	80	24	36	72	28	28
Length [mm]	140	280	560	280	560	140	280	560	560	560
Width [mm]	24	24	24	24	24	20	20	20	24	24
Height [mm]	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

LMC LED MODULE COVERS

Helvar's module covers provide protection from electrical parts of the module in luminaire installations as well as diffusion to achieve more uniform light. The mounting parts offer a sturdy and simple way to install modules into luminaires.

Clear and opal versions available, the optical diffusion in the opal versions improve the glare reduction and even light distribution of the modules and luminaires. Perfect fit for LiC, LS, LX and LP modules with three available lengths, custom lengths possible on demand.

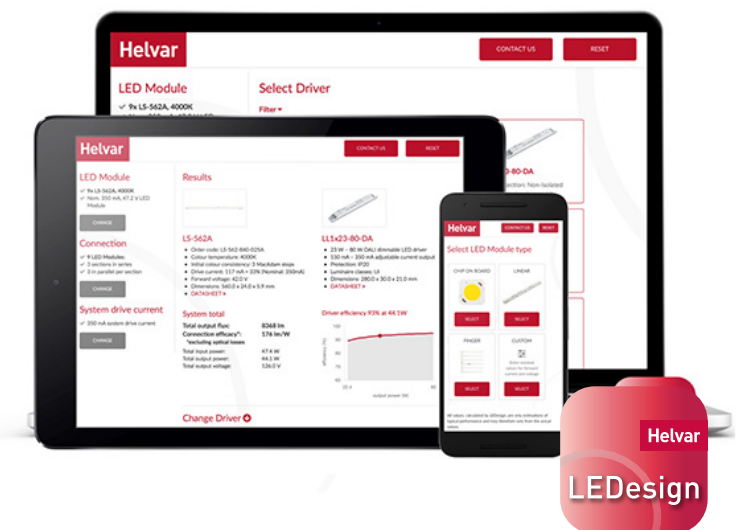


LEDesign CALCULATION TOOL

LEDesign helps you to find compatible Helvar drivers for your LED light source and compare energy efficiency of LED solutions.

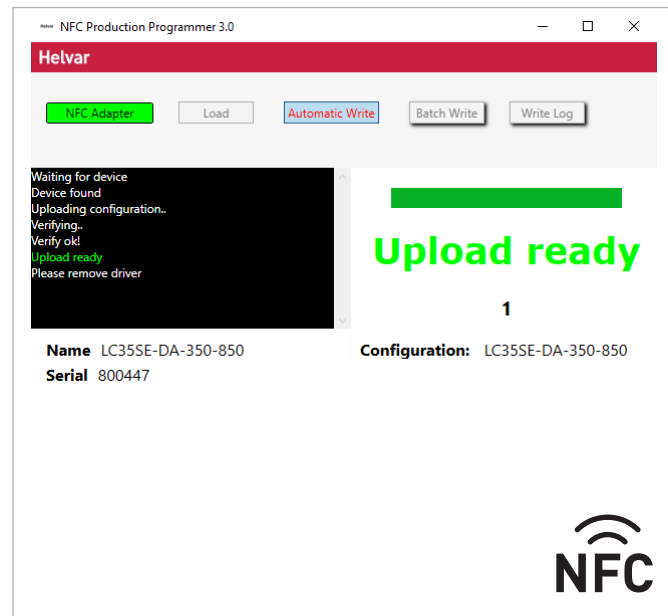
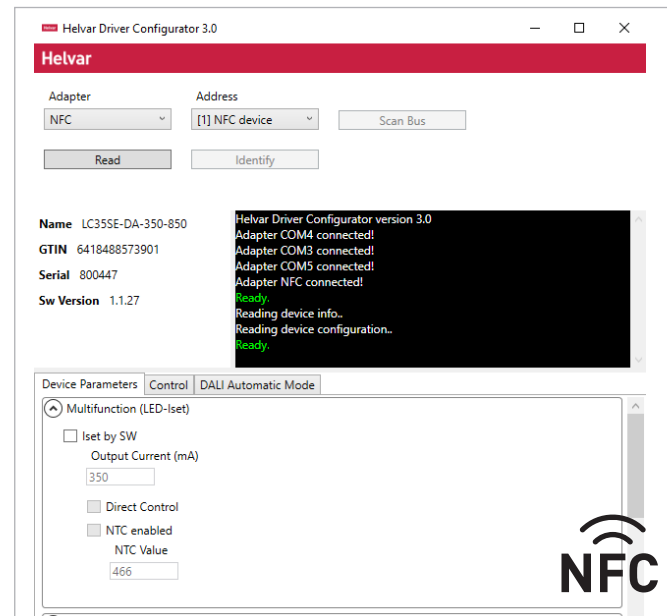
LEDesign shows the key electrical and photometrical parameters for the selected combination of LED modules and Helvar drivers, and indicates whether the LEDs are under or overdriven.

Also, the tool also creates efficiency graph of the selected LED load, showing how well it will perform.



[ledesign.helvar.com](http://ledesign.helvar.com)

SOFTWARE



HELVAR DRIVER CONFIGURATOR

This software is for advanced parameter setting of Helvar DALI and Tunable White iC and Freedom LED drivers.

Helvar Driver Configurator now supports also wireless configuration, using near-field communication technology. Helvar LED drivers with NFC can be effortlessly programmed without DALI connection. Download for free from [helvar.com](http://helvar.com)

KEY FEATURES

- For advanced programming of Helvar LED drivers, Tunable White iC and Freedom LED drivers
- Connect drivers with DALI or wireless NFC
- Automatic programming mode
- Command prompt commands
- Broadcast to all or address by address
- External command programming software support

NFC PRODUCTION PROGRAMMER

Designed with luminaire manufacturers, this wireless tool simplifies production line work and automates programming of several drivers in a sequence.

It's a handy tool for wireless continuous programming of LED drivers via NFC. The automatic or batch write mode allows the user to quickly program large amount of LED drivers sequentially with a simple touch. Configuration data can be stored for later use. Download for free from [helvar.com](http://helvar.com)

KEY FEATURES

- For luminaire production line programming use
- Wireless connectino to drivers
- Load pre-configured driver parameters
- Automatic write mode for continuous programming
- Batch write mode for easier batch programming operation
- Save log information to excel file for later monitoring and use

USEFUL INFORMATION

LED DRIVER GLOSSARY

- Mains input markings** (L): Live wire, (N): Neutral wire, (-): Alternating current, AC
- Functional Earth** Driver with functional earth has a double or re-inforced insulation between live parts and accessible conductive parts.
- Protective Earth** Driver with protective earth has a basic insulation from live parts.
- Switch-Control** Protocol for controlling the light with a mains rated retrievable switch.
- I-Set / LED-Iset** setting of driver output current by external resistor.
- LEDset 1** LEDSet Harmonization of resistors for equal module currents from different producers. Reduces the risk of interchanging resistors and improves the availability of prefabricated resistors. More: <http://www.zhagastandard.org/>
- NTC** Negative Temperature Coefficient, an external resistor component having a negative thermal coefficient of the resistance. The NTC-resistor is used as a temperature sensor in luminaires.
- Driver load** LED load showing orientation on Anode (+) and Cathode (-).
- Cable requirements** Strip length and cross section requirement for the cables.
- DALI** DALI Digital Addressable Lighting Interface, a digital protocol for lighting control. A DALI system can be made up of control gears, control devices and bus power supplies. The system allows for individual addressing and bidirectional communication between any components in the network.
- DALI 2** DALI-2 certification brings the promise of significantly improved interoperability and additional functionality compared with current DALI (version 1) systems in the market.
- iC** Intelligent Colour – Products designed for controlling colour or tunable white, Helvar only marking.
- ENEC** European Norms Electrical Certification, shows that product has been certified by one of the national certification institutes in Europe ensuring that it complies with the relevant European safety standards. The number expresses which approval body has issued the certificate: 16 – SGS Fimko, 14 – SEMKO, 10 – VDE Germany, 18 – TÜV Rheinland Hungary.

- ELV** – Protect against electrical shock where electrical voltage is not higher than voltage, which does not exceed 50Vac or 120V ripple free DC between conductors or between any conductor and earth.
- SELV – ELV** in a circuit which is isolated from the mains supply by insulation not less than that between the primary and secondary circuits of a safety isolating transformer (according to IEC61158-2-6).
- Double insulation** A double insulated control gear for inbuilt usage, that does not require a safety connection to electrical earth (ground). This is usually achieved by having two layers of insulating material surrounding live parts.
- Independent** Symbol for independent control gear
- Double insulation** A general symbol for double insulated electrical appliances. NOTE: Equipped with strain relief and can therefore be used as an independent device.
- Short-circuit proof**, safety isolating lamp control gear (SELV control gear).
- CE** – Conformité Européenne, meaning European Conformity, is a mandatory conformity marking for certain products sold within the European Economic Area (EEA). The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EC directives. NOTE: It is not a certification from a third party approval body.
- EAC** EAC – Eurasian Conformity mark, certification on the territory of Customs Union, in Russia, Kazakhstan, Republic of Belarus and Ukraine of conformance to technical regulations.
- CCC** – China Compulsory Certificate, a compulsory safety mark for drivers imported, sold or used in the Chinese market.
- PF** – Power factor, the ratio of the real power flowing to the load versus the apparent power in the circuit.
- tc** – Case temperature, maximum allowed temperature for the product measured at the marked tc point.
- ta** – Maximum allowed ambient operating temperature range for driver. NOTE: not the same as the room temperature.
- NFC** stands for near-field communication. Products with NFC mark can be configured wirelessly with Helvar Driver Configurator and Production Prommer softwares.

**smart DATA** SmartDATA drivers with Smart Data feature are capable of monitoring and measuring key data about driver usage and providing access to that data (in DALI drivers complying with DALI parts 251-253). This includes data sets such as OEM customer data, energy reporting and diagnostics.

TUNABLE WHITE | FREEDOM WIRELESS | DIMMABLE LINEAR LED DRIVERS

TUNABLE WHITE

MODEL	OUTPUT PROTECTION	CONTROL	MAX. OUTPUT POWER [W]	OUTPUT TYPE	OUTPUT CURRENT [mA]	CURRENT SETTING				OUTPUT VOLTAGE [V]	CLASS	POWER FACTOR AT MAX. LOAD	EFFICIENCY AT MAX LOAD	DIMENSIONS L X W X H [mm]	LIFETIME UP TO [h]
						NFC	DALI	DIP	RESISTOR						
LC35/2-DA-iC	SELV60	DALI + DT8	35	Adjustable	350-700		●		●	12-50 (350 mA), 12-50 (700 mA)	I, II, III	0.96	0.88	122.9 x 79 x 30	100000
LC45iC-DA-100-900	SELV60	DALI + DT8	45	Adjustable	100-900		●		●	12-50	I, II, III	0.96	0.88	122.9 x 79 x 30	100000
LL50iC-FD-100-1200	SELV60	FREEDOM + DT8	50	Adjustable	100-1200	●			●	60-90 (350 mA), 35-90 (700 mA), 35-42 (1200 mA)	I, II, III	0.98	0.88	280 x 30 x 21	100000
LL50iC-DA-100-1200	SELV60	DALI + DT8	50	Adjustable	100-1200	●	●		●	12-50 (100 mA, 250 mA), 20-42 (1200 mA)	I, II, III	0.96	0.88	280 x 30 x 21	100000

FREEDOM WIRELESS

LC25-FD-350-700	SELV60	FREEDOM	25	Adjustable	350-700				●	9-48 (350 mA), 9-36 (700 mA)	I, II, III	0.96	0.87	106 x 67 x 28	100000
LC27MINI-FD-150-700	SELV60	FREEDOM	27	Adjustable	150-700			●		9-52 (150 mA), 9-37.5 (700 mA)	I, II, III	0.95	0.87	97 x 43 x 30	100000
LC35-FD-700-1050	SELV60	FREEDOM	35	Adjustable	700-1050				●	9-48 (350 mA), 9-34 (700 mA)	I, II, III	0.96	0.89	106 x 67 x 28	100000
LL10-42-FD-120-350	Non-isolated	FREEDOM	42	Adjustable	120-350				●	80-350 (120 mA), 50-120 (350 mA)	I, II	0.96	0.89	360 x 30 x 21	100000
LC50-FD-900-1400	SELV60	FREEDOM	50	Adjustable	900-1400				●	12-50 (900 mA), 12-36 (1400 mA)	I, II, III	0.96	0.88	122 x 79 x 30	100000
LL50iC-FD-100-1200	SELV60	FREEDOM + DT8	50	Adjustable	100-1200	●			●	60-90 (350 mA), 35-90 (700 mA), 35-42 (1200 mA)	I, II, III	0.98	0.88	280 x 30 x 21	100000
LL50SE-FD-100-1400	SELV60	FREEDOM	50	Adjustable	100-1400	●			●	25-40	I, II, III	0.98	0.88	360 x 30 x 21	100000
LL23-80-FD-150-350	Non-isolated	FREEDOM	80	Adjustable	150-350				●	150-350 (150 mA), 64-228 (350 mA)	I, II	0.98	0.95	360 x 30 x 21	100000
LL80-FD-350-700	Non-isolated	FREEDOM	80	Adjustable	350-700				●	71-228 (350 mA), 35-114 (700 mA)	I, II	0.98	0.94	360 x 30 x 21	100000
LL110-FD-350-700	Non-isolated	FREEDOM	110	Adjustable	350-700				●	120-314 (350 mA), 50-157 (700 mA)	I, II	0.98	0.95	360 x 30 x 21	100000

DIMMABLE LINEAR LED DRIVERS

LL1x50-E-DA	SELV60	DALI	50.4	Adjustable	1050-1400		●		●	20-48 (1050 mA), 20-36 (1400 mA)	I, II	0.98	0.88	360 x 30 x 21	100000
LL25SE-DA-120-500	SELV60	DALI-2	25	Adjustable	120-300	●	●		●	25-54 (120 mA), 25-50 (300 mA)	I, II	0.97	0.87	280 x 30 x 21	100000
LL35SE-DA-250-850	SELV60	DALI-2	35	Adjustable	250-850	●	●		●	25-54 (250 mA), 25-42 (850 mA)	I, II	0.97	0.88	280 x 30 x 21	100000
LL1x10-42-CR-DA	Non-Isolated	DALI-2	42	Adjustable	120-350		●		●	80-220 (120 mA), 50-120 (350 mA)	I, II	0.97	0.92	280 x 30 x 21	100000
LL1x10-42-E-DA	Non-Isolated	DALI	42	Adjustable	120-350		●		●	80-350 (120 mA), 50-120 (350 mA)	I, II	0.96	0.93	280 x 30 x 21	100000
LL50SE-DA-100-1400	SELV60	DALI-2	50	Adjustable	100-1400	●	●		●	25-54 (100 mA), 25-54 (250 mA), 25-36 (1400 mA)	I, II	0.98	0.88	360 x 30 x 21	100000
LL1x23-80-CR-DA	Non-Isolated	DALI-2	80	Adjustable	150-350		●		●	150-350 (150 mA), 64-228 (350 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL1x23-80-DA	Non-Isolated	DALI	80	Adjustable	150-350		●		●	150-350 (150 mA), 64-228 (350 mA)	I, II	0.98	0.95	280 x 30 x 21	100000
LL1x80-DA-350-700	Non-Isolated	DALI	80	Adjustable	350-700		●		●	70-228 (350 mA), 35-114 (750 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL1x80-CR-DA	Non-Isolated	DALI-2	80	Adjustable	350-700		●		●	50-220 (350 mA), 35-114 (750 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL80DS-DA-AN-350-1400	SELV60	DALI / 1-10V	80	Adjustable	350-1400			●		20-56	I, II	0.95	0.91	359 x 30 x 21	100000
LL1x110-CR-DA	Non-Isolated	DALI-2	110	Adjustable	350-700		●		●	120-314 (350 mA), 50-157 (750 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL1x110-E-DA	Non-Isolated	DALI	110	Adjustable	350-700		●		●	120-314 (350 mA), 50-157 (750 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL1x150-CR-DA	Non-Isolated	DALI-2	150	Adjustable	350-700		●		●	257-350 (350 mA), 128-214 (700 mA)	I, II	0.98	0.96	360 x 30 x 21	100000



MINI LED DRIVERS

	MODEL	OUTPUT PROTECTION	CONTROL	MAX. OUTPUT POWER [W]	OUTPUT TYPE	OUTPUT CURRENT [mA]	CURRENT SETTING WITH DIP-SWITCH	OUTPUT VOLTAGE [V]	CLASS	POWER FACTOR AT MAX. LOAD	EFFICIENCY AT MAX LOAD	DIMENSIONS L X W X H [mm]	LIFETIME UP TO [h]
DIMMABLE MINI	LC27MINI-FD-150-700	SELV60	FREEDOM	27	Adjustable	150-700	●	9-52 (150 mA), 9-37.5 (700 mA)	I, II, III	0.95	0.87	97 x 43 x 30	100000
	LC26MINI-DA-250-700	SELV60	DALI-2	26	Adjustable	250-700	●	10-44 (250 mA), 10-37 (700 mA)	I, II	0.95	0.88	97 x 42,5 x 21,5	100000
	LC26MINI-DA-250-700-SR	SELV60	DALI-2	26	Adjustable	250-700	●	10-49	I, II, III	0.95	0.87	146,5 x 42,5 x 15	100000
	LC27MINI-DA-150-700	SELV60	DALI-2	26,3	Adjustable	150-700	●	9-52 (150 mA), 9-37.5 (700 mA)	I, II, III	0.90	0.88	97 x 43 x 30	100000
	LC38MINI-DA-300-1050-SR	SELV60	DALI-2	38	Adjustable	300-1050	●	10-54 (300 mA), 10-36 (1050 mA)	I, II, III	0.95	0.90	146,5	100000
	LC38MINI-DA-300-1050	SELV60	DALI-2	38	Adjustable	300-1050	●	10-54 (300 mA), 10-36 (1050 mA)	I, II	0.95	0.90	97 x 43 x 30	100000
NON-DIMMABLE MINI	LC44MINI-DA-700-1050	SELV60	DALI-2	44,1	Adjustable	700-1050	●	9-52 (700 mA), 9-42 (1050 mA)	I, II, III	0.95	0.87	97 x 43 x 30	100000
	LC12MINI-CC-350-SR	SELV60	ON/OFF	12	Fixed	350		18-35	I, II, III	0.90	0.79	100 x 38 x 25	100000
	LC12MINI-CC-500-SR	SELV60	ON/OFF	12	Fixed	500		14,5-24	I, II, III	0.90	0.83	100 x 38 x 25	100000
	LC16MINI-CC-350-SR	SELV60	ON/OFF	16	Fixed	350		23-46	I, II, III	0.90	0.84	100 x 38 x 25	100000
	LC16MINI-CC-700-SR	SELV60	ON/OFF	16	Fixed	700		14-23	I, II, III	0.90	0.85	100 x 38 x 25	100000
	LC20MINI-CC-250-500	SELV60	ON/OFF	21	Adjustable	250-500	●	10-42	I, II, III	0.95	0.85	97 x 43 x 30	100000
	LC21MINI-CC-500-SR	SELV60	ON/OFF	21	Fixed	500		25-42	I, II, III	0.90	0.85	100 x 38 x 25	100000
	LC21MINI-CC-700-SR	SELV60	ON/OFF	21	Fixed	700		18-30	I, II, III	0.90	0.85	100 x 38 x 25	100000
	LC22MINI-CC-125-500-SR	SELV60	ON/OFF	22	Adjustable	125-500	●	20-44 (125 mA), 5-44 (500 mA)	I, II, III	0.95	0.89	146,5 x 42,5 x 21,5	100000
	LC22MINI-CC-125-500	SELV60	ON/OFF	22	Adjustable	125-500	●	20-44 (125 mA), 5-44 (500 mA)	I, II	0.95	0.89	97 x 43,5 x 22	100000
	LC28MINI-CC-500-700	SELV60	ON/OFF	28	Adjustable	500-700	●	28-40	I, II, III	0.95	0.88	97 x 43 x 22	100000
	LC30MINI-CC-600	SELV60	ON/OFF	30	Fixed	600		Available in 2020	I, II, III			97 x 43 x 22	100000
	LC30MINI-CC-700	SELV60	ON/OFF	29,7	Fixed	700		30-42	I, II, III	0.95	0.88	97,0 x 43 x 26	100000
	LC40MINI-CC-900	SELV60	ON/OFF	40	Fixed	900		Available in 2020	I, II, III			97 x 43 x 22	100000
	LC40MINI-CC-1050	SELV60	ON/OFF	40	Fixed	1050		30-40	I, II, III	0.95	0.88	97 x 43 x 26	100000
	LC40MINI-CC-700-1050	SELV60	ON/OFF	42	Adjustable	700-1050	●	28-40	I, II, III	0.95	0.85	97 x 43 x 30	100000
	LC42MINI-CC-300-1050-SR	SELV60	ON/OFF	42	Adjustable	300-1050	●	3-44 (300 mA), 3-40 (1050 mA)	I, II, III	0.95	0.90	146,5 x 43,5 x 30	100000
	LC42MINI-CC-300-1050	SELV60	ON/OFF	42	Adjustable	300-1050	●	3-44 (300 mA), 3-40 (1050 mA)	I, II	0.95	0.90	97 x 42,5 x 30	100000

LINEAR NON-DIMMABLE LED DRIVERS

NON-DIMMABLE LINEAR LED DRIVERS

MODEL	OUTPUT PROTECTION	CONTROL	MAX. OUTPUT POWER [W]	OUTPUT TYPE	OUTPUT CURRENT [mA]	CURRENT SETTING			OUTPUT VOLTAGE [V]	CLASS	POWER FACTOR AT MAX. LOAD	EFFICIENCY AT MAX LOAD	DIMENSIONS L X W X H [mm]	LIFETIME UP TO [h]
						NFC	DIP	RESISTOR						
LL1x21-CC	Basic Isolated	ON/OFF	21	Selectable	300/350			●	45-65 (300 mA), 40-60 (350 mA)	I, II	0.97	0.86	230 x 30 x 21	100000
LL1x26-CC	Basic Isolated	ON/OFF	26	Selectable	300/350			●	20-75	I, II	0.97	0.90	230 x 30 x 21	100000
LL18SEC-CC-200-350	SELV60	ON/OFF	18	Selectable	200/250/300/350		●	●	30-52	I, II	0.96	0.86	190 x 30 x 21	100000
LL25SE-CC-150-500-NFC	SELV60	ON/OFF	25	Adjustable	120-300			●	33-54 (150 mA), 25-54 (350 mA), 25-50 (500 mA)	I, II	0.97	0.87	280 x 30 x 21	100000
LL30HE-CC-300	Non-Isolated	ON/OFF	30	Fixed	300				40-105	I, II	0.98	0.91	190 x 30 x 21	100000
LL35SE-CC-250-850-NFC	SELV60	ON/OFF	35	Adjustable	250-850			●	25-54 (250 mA), 25-42 (850 mA)	I, II	0.97	0.88	280 x 30 x 21	100000
LL35HE-CC-120-450	Non-Isolated	ON/OFF	35	Adjustable	120-450			●	70-220 (120 mA), 50-78 (450 mA)	I, II	0.98	0.93	280 x 30 x 21	100000
LL35HE-CC-350	Non-Isolated	ON/OFF	35	Fixed	350				40-105	I, II	0.98	0.92	190 x 30 x 21	100000
LL35HEC-CC-300	Non-Isolated	ON/OFF	35	Fixed	300				46-117	I, II	0.96	0.90	190 x 30 x 21	100000
LL35HEC-CC-350	Non-Isolated	ON/OFF	35	Fixed	350				46-104	I, II	0.96	0.90	190 x 30 x 21	100000
LL1x38-CC	Basic Isolated	ON/OFF	38.5	Selectable	300/350			●	70-110 (300 mA), 70-110 (350 mA)	I, II, III	0.98	0.89	230 x 30 x 21	100000
LL38BI-CC-300	Basic Isolated	ON/OFF	38	Fixed	300				75-125	I, II	0.95	0.88	230 x 30 x 21	100000
LL1x38-CC-350	Basic Isolated	ON/OFF	38	Fixed	350				80-110 (300 mA) / 80-110 (350 mA)	I, II	0.97	0.88	230 x 30 x 21	100000
LL1x38-CC-300/350	Basic Isolated	ON/OFF	38	Fixed	300/350				80-115	I, II	0.97	0.88	230 x 30 x 21	100000
LL40BI-CC-350	Basic Isolated	ON/OFF	40	Fixed	350				69-112	I, II	0.95	0.88	230 x 30 x 21	100000
LL1x10-42-E-CC	Non-Isolated	ON/OFF	42	Adjustable	120-350			●	80-350 (120 mA), 80-300 (140 mA), 30-120 (350 mA)	I, II	0.98	0.94	190 x 30 x 21	100000
LL1x10-42-CC-350-700	Non-Isolated	ON/OFF	42	Adjustable	350-700			●	28-120 (350 mA), 20-60 (700 mA)	I, II	0.98	0.91	230 x 30 x 21	100000
LL50SE-CC-350-1400-NFC	SELV60	ON/OFF	50	Adjustable	350-1400			●	42-54 (350 mA), 25-36 (1400 mA)	I, II, III	0.98	0.88	280 x 30 x 21	100000
LL1x54-CC-350	Basic Isolated	ON/OFF	54	Fixed	350				105-155	I, II	0.96	0.89	230 x 30 x 21	100000
LL65HE-CC-250-700	Non-Isolated	ON/OFF	65	Adjustable	250-700			●	90-220 (250 mA), 50-93 (700 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL65HE-CC-175-300-DS	Non-Isolated	ON/OFF	65	Selectable	175/250/300/350			●	90-220 (250 mA), 50-93 (700 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL65HEC-CC-250-350	Non-Isolated	ON/OFF	65	Selectable	200/250/300/350		●		90-188	I, II	0.96	0.93	280 x 30 x 21	100000
LL65HEC-CC-250-700	Non-Isolated	ON/OFF	65	Adjustable	250-700			●	90-220 (250 mA), 50-93 (700 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL70DS-CC-350-1400	SELV60	ON/OFF	70	Adjustable	350-1400			●	35-56 (350 mA), 10-50 (1400 mA)	I	0.98	0.89	360 x 30 x 21	100000
LL1x80-CC-1400-2100	SELV60	ON/OFF	80	Adjustable	1400-2100			●	25-54 (1400 mA), 25-38 (2100 mA)	I, II	0.98	0.91	360 x 30 x 21	100000
LL1x23-80-E-CC	Non-Isolated	ON/OFF	80	Adjustable	150-350			●	150-350 (150 mA), 120-350 (200 mA), 120-228 (350 mA)	I, II	0.98	0.95	230 x 30 x 21	100000
LL80HEC-CC-200-350	Non-Isolated	ON/OFF	80	Selectable	200/250/300/350		●		140-230	I, II	0.98	0.95	280 x 30 x 21	100000
LL80BI-CC-300/350	Basic Isolated	ON/OFF	80	Selectable	300/350		●		140-230	I, II	0.95	0.92	280 x 30 x 21	100000
LL1x80-E-CC-350-700	Non-Isolated	ON/OFF	80	Adjustable	350-700			●	120-228 (350 mA), 50-114 (700 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL100HE-CC-250-700	Non-Isolated	ON/OFF	100	Adjustable	250-700			●	140-220 (250 mA), 50-142 (700 mA)	I, II	0.98	0.94	280 x 30 x 21	100000
LL1x110-E-CC-200-350	Non-Isolated	ON/OFF	110	Adjustable	200-350			●	120-350 (200 mA), 120-314 (350 mA)	I, II	0.98	0.95	230 x 30 x 21	100000
LL1x110-E-CC-350-700	Non-Isolated	ON/OFF	110	Adjustable	350-700			●	120-314 (350 mA), 50-157 (700 mA)	I, II	0.98	0.95	280 x 30 x 21	100000
LL1x150-E-CC	Non-Isolated	ON/OFF	150	Adjustable	350-700			●	257-350 (350 mA), 128-214 (700 mA)	I, II	0.98	0.96	280 x 30 x 21	100000

COMPACT LED DRIVERS

MODEL	OUTPUT PROTECTION	CONTROL	MAX. OUTPUT POWER [W]	OUTPUT TYPE	OUTPUT CURRENT [mA]	CURRENT SETTING				OUTPUT VOLTAGE [V]	CLASS	POWER FACTOR AT MAX. LOAD	EFFICIENCY AT MAX LOAD	DIMENSIONS LX W X H [mm]	LIFETIME UP TO [h]
						NFC	DALI	DIP	RESISTOR						
LC1x28-AN	SELV60	1-10 V	28	Selectable	350 / 500 / 700				●	10-50 (350 mA), 10-50 (500 mA), 10-40 (700 mA)	I, II, III	0.96	0.86	106 x 67 x 28	100000
LC1x30-E-DA	SELV120	DALI	30	Selectable	350 / 500 / 700		●		●	10-60 (350 mA), 10-60 (500 mA), 10-43 (700 mA)	I, II	0.96	0.87	106 x 67 x 28	100000
LC1x30-E-AN	SELV120	1-10 V	30	Selectable	350 / 500 / 700				●	10-60 (350 mA), 10-60 (500 mA), 10-43 (700 mA)	I, II	0.96	0.87	106 x 67 x 28	100000
LC35SE-DA-350-850	SELV60	DALI-2	35	Adjustable	350-850	●	●		●	25-54 / 25-42	I, II, III	0.96	0.88	115 x 67 x 29,5	100000
LC35SE-DA-350-850-LOOP	SELV60	DALI-2	35	Adjustable	350-850	●	●		●	25-54 / 25-42	I, II, III	0.96	0.88	207 x 79 x 30	100000
LC1x35-DA	SELV60	DALI	35	Adjustable	700-1050		●		●	20-48 (700 mA), 20-34 (1050 mA)	I, II, III	0.97	0.89	106 x 67 x 28	100000
LC45SE-DA-600-1050	SELV60	DALI-2	45	Adjustable	600-1050	●	●		●	25-54 (600 mA), 25-42,8 (1050 mA)	I, II, III	0.97	0.88	115 x 67 x 29,5	100000
LC45SE-DA-600-1050-LOOP	SELV60	DALI-2	45	Adjustable	600-1050	●	●		●	25-54 (600 mA), 25-42,8 (1050 mA)	I, II, III	0.97	0.88	207 x 79 x 30	100000
LC51SE-DA-900-1400-LOOP	SELV60	DALI-2	51	Adjustable	900-1400	●	●		●	25-54 (900 mA), 25-36,4 (1400 mA)	I, II, III	0.98	0.90	207 x 79 x 30	100000
LC60DS-DA-700-1400	SELV60	DALI	70	Adjustable	700-1400			●	●	9-52 (700 mA), 9-43 (1400 mA)	I, II	0.98	0.91	143.6 x 71.3 x 30	100000
LL1x12-E-CC-350	SELV60	ON/OFF	12	Fixed	350				●	8.4-36	I, II, III	0.50c	0.83	123 x 45 x 19	30000
LL1x15-E-CC-500	SELV60	ON/OFF	15	Fixed	500				●	8-30	I, II, III	0.50c	0.85	123 x 45 x 19	30000
LC1x25-CC	SELV60	ON/OFF	25.2	Adjustable	350-700				●	20-45 (350 mA), 20-36 (700 mA)	I, II, III	0.97	0.89	106 x 67 x 28	100000
LC1x30-E-CC	SELV120	ON/OFF	30	Selectable	350 / 500 / 700				●	10-60 (350 mA), 10-60 (500 mA), 10-43 (700 mA)	I, II	0.96	0.88	106 x 67 x 28	100000
LC35SE-CC-350-850	SELV60	ON/OFF	35	Adjustable	350-850				●	25-54 (350 mA), 25-54 (600 mA), 25-42 (850 mA)	I, II, III	0.98	0.89	115 x 67 x 29,5	100000
LC35SE-CC-350-850-LOOP	SELV60	ON/OFF	35	Adjustable	350-850				●	25-54 (350 mA), 25-54 (600 mA), 25-42 (850 mA)	I, II, III	0.98	0.89	207 x 79 x 30	100000
LC1x35-CC	SELV60	ON/OFF	35.7	Adjustable	700-1050				●	20-48 (700 mA), 20-34 (1050 mA)	I, II, III	0.97	0.90	106 x 67 x 28	100000
LC45SE-CC-600-1050	SELV60	ON/OFF	45	Adjustable	600-1050				●	25-54 (600 mA), 25-54 (800 mA), 25-42,8 (1050 mA)	I, II, III	0.98	0.89	115 x 67 x 29,5	100000
LC45SE-CC-600-1050-LOOP	SELV60	ON/OFF	45	Adjustable	600-1050				●	25-54 (600 mA), 25-54 (800 mA), 25-42,8 (1050 mA)	I, II, III	0.98	0.89	207 x 79 x 30	100000
LC51SE-CC-900-1400-LOOP	SELV60	ON/OFF	51	Adjustable	900-1400				●	25-54 (900 mA), 25-42,5 (1200 mA), 25-42,8 (1400 mA)	I, II, III	0.98	0.90	207 x 79 x 30	100000
LC60DS-CC-1050-1700	SELV60	ON/OFF	60	Adjustable	1050-1700			●	●	22-44 (1050 mA), 17-35 (1700 mA)	I, II, III	0.95	0.90	110 x 74 x 30	100000
LC110HE-CC-350-700-IND-PCB	Non-Isolated	ON/OFF	150	Adjustable	350-700				●	120-314 (350 mA), 50-157 (700 mA)	I, II	0.98	0.95	108 x 63 x 16	100000
LC150HE-CC-350-700-IND	Non-Isolated	ON/OFF	150	Adjustable	350-700				●	257-350 (350 mA), 128-214 (700 mA)	I, II	0.98	0.96	143,6 x 71,3 x 30	100000
LC150HE-CC-350-700-IND-PCB	Non-Isolated	ON/OFF	150	Adjustable	350-700				●	257-350 (350 mA), 128-214 (700 mA)	I, II	0.98	0.96	134,7 x 74,6 x 25,5	100000

DIMMABLE

NON-DIMMABLE



## OUTDOOR & CONSTANT VOLTAGE LED DRIVERS

MODEL	OUTPUT PROTECTION	CONTROL	IP RATING	MAX. OUTPUT POWER [W]	OUTPUT TYPE	OUTPUT CURRENT [mA]	OUTPUT VOLTAGE [V]	CLASS	POWER FACTOR AT MAX. LOAD	EFFICIENCY AT MAX LOAD	DIMENSIONS L X W X H [mm]	LIFETIME UP TO [h]
LL1x30-CV12	SELV60	ON/OFF (DIMMABLE*)	IP20	30	Constant Voltage	0-2500	12	I, II, III	0.95	0.83	153 x 41 x 32	30 000
LL1x75-CV12	SELV60	ON/OFF (DIMMABLE*)	IP20	75	Constant Voltage	0-6250	12	I, II, III	0.95	0.84	180 x 52 x 30	30000
LL1x30-E-CV24	SELV60	ON/OFF (DIMMABLE*)	IP20	30	Constant Voltage	0-1250	24	I, II, III	0.95	0.86	131 x 34 x 42	30000
OL1x30-E-CV24	SELV60	ON/OFF (DIMMABLE*)	IP67	30	Constant Voltage	0-1250	24	I, II, III	0.95	0.87	131 x 34 x 42	30000
LL1x75-E-CV24	SELV60	ON/OFF (DIMMABLE*)	IP20	75	Constant Voltage	0-3125	24	I, II, III	0.95	0.88	180 x 52 x 30	30000
OL1x75-E-CV24	SELV60	ON/OFF (DIMMABLE*)	IP67	75	Constant Voltage	0-3125	24	I, II, III	0.95	0.88	155 x 50 x 32	30000
LL1x120-CV24	SELV60	ON/OFF (DIMMABLE*)	IP20	120	Constant Voltage	0-5000	24	I, II, III	0.95	0.88	300 x 40 x 30	30000
LL1x180-CV24	SELV60	ON/OFF (DIMMABLE*)	IP20	180	Constant Voltage	0-7500	24	I, II, III	0.95	0.92	345 x 50 x 35	30000

\*] DALI with LL1-CV-DA DALI LED driver extension, Switch-Control with LL1-CV-SC Switch-Control LED driver extension



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