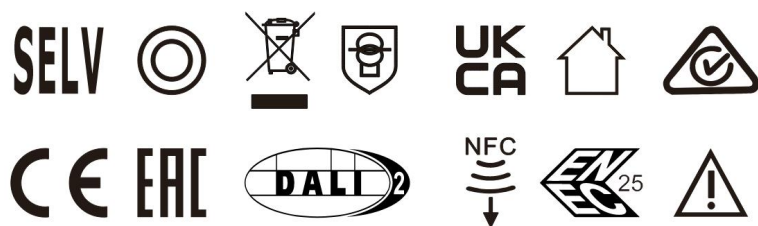
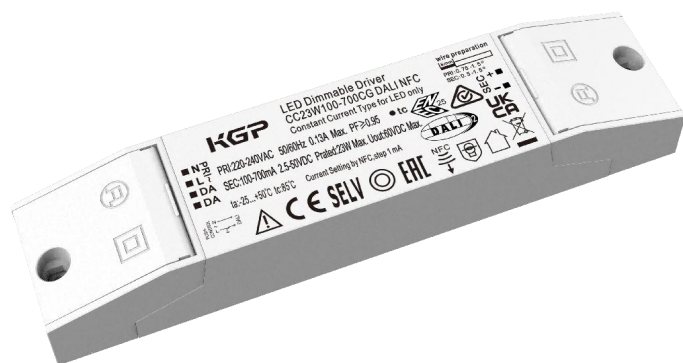


Compact Drivers DALI NFC

CC15W100-350CG DALI NFC
CC23W100-700CG DALI NFC
CC36W150-900CG DALI NFC



Constant current lighting compact drivers

Product features

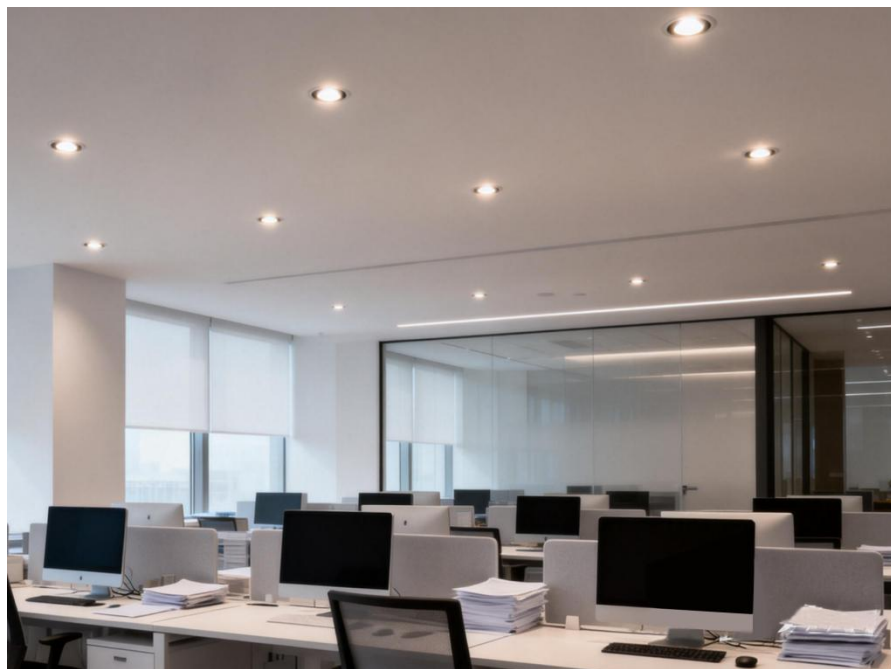
- Supply voltage 220-240 Vac/220-240VDC $\pm 10\%$
- Range input voltage 198-264 Vac
- Range DC input voltage 198-264 Vdc
- Frequency: 0/50/60 Hz
- Class II
- Power factor $\geq 0,85$ (at full load for 10W)
 $\geq 0,90$ (at full load for 18W)
- Low ripple $\pm 5\%$
- Current Accuracy $\pm 5\%$
- Low THD $\leq 20\%$ (at full load)
- Dimming range: 1%-100%
- Type of protection: IP20
- SELV
- 50.000 Hours lifetime (At Tc Max.)
- 5 Years guarantee

Product benefit

- Slim design
- Flexible configuration via DALI-2
- Support NFC programming
- Wide voltage range

Application

- For Wall Lights, Spotlights, and Other Compact Luminaires



Product parameters

Model	Watt Range	Input Voltage	Mains current (mA)	Inrush current (A/μs)	DC Operation Range	Output Voltage	Output Current	Efficiency (typical)	Power factor (full load)	Rippel 100Hz(%)
CC15W100-350CG DALI NFC	6.10W	220-240VAC	0.035A	≤40A/250us	220-240VDC	9-50V	100mA	82%	0.8	±5%
	9.83W		0.041			9-50V	150mA	84%	0.8	
	11.77W		0.053			9-50V	200mA	85%	0.9	
	14.54W		0.064			6-50V	250mA	86%	0.92	
	17.24W		0.078			6-50V	300mA	87%	0.95	
	17.3W		0.088			2.5-43V	350mA	87%	0.95	
CC23W100-700CG DALI NFC	1-4.9W	220-240VAC	0.034	≤45A/16us	220-240VDC	10-50V	100mA	78.6%	0.70	±10%
	1.05-7.4W		0.041			7-50V	150mA	83.4%	0.86	
	1-9.9W		0.051			5-50V	200mA	85.6%	0.93	
	1-12.5W		0.061			4-50V	250mA	86.7%	0.96	
	1.2-15W		0.074			4-50V	300mA	87.4%	0.98	
	1.05-17.4W		0.083			3-50V	350mA	87.2%	0.98	
	1-19.9W		0.097			2.5-50V	400mA	87.8%	0.96	±5%
	1.12-22.5W		0.108			2.5-50V	450mA	88.2%	0.97	
	1.25-23.0W		0.111			2.5-46V	500mA	88%	0.97	
	1.37-23.2W		0.112			2.5-42V	550mA	87.7%	0.97	
	1.5-23.0W		0.112			2.5-38V	600mA	87.3%	0.97	
	1.6-23.0W		0.112			2.5-35V	650mA	87%	0.97	
	1.75-23.3W		0.114			2.5-33V	700mA	87%	0.98	
CC36W150-900CG DALI NFC	9.38W	220-240VAC	0.055A	≤50A/200us	220-240VDC	6-50V	150mA	80%	0.7C	±10%
	12.05W		0.065A			6-50V	200mA	83%	0.79C	
	14.71W		0.071A			6-50V	250mA	85%	0.87C	
	17.44W		0.081A			6-50V	300mA	86%	0.94C	±5%
	20.35W		0.091A			6-50V	350mA	86%	0.95	
	23W		0.102A			2.5-50V	400mA	87%	0.95	
	25.57W		0.113A			2.5-50V	450mA	88%	0.95	
	28.41W		0.113A			2.5-50V	500mA	88%	0.97	
	31.25W		0.141A			2.5-50V	550mA	88%	0.97	
	34.10W		0.152A			2.5-50V	600mA	88%	0.97	
	36.93W		0.164A			2.5-50V	650mA	88%	0.97	
	39.77W		0.176A			2.5-50V	700mA	88%	0.97	
	40.91W		0.183A			2.5-48V	750mA	88%	0.97	
	40.91W		0.183A			2.5-45V	800mA	88%	0.97	
	40.6W		0.182A			2.5-42V	850mA	88%	0.97	
	40.91W		0.183A			2.5-40V	900mA	88%	0.97	

Operational temperatures and humidity

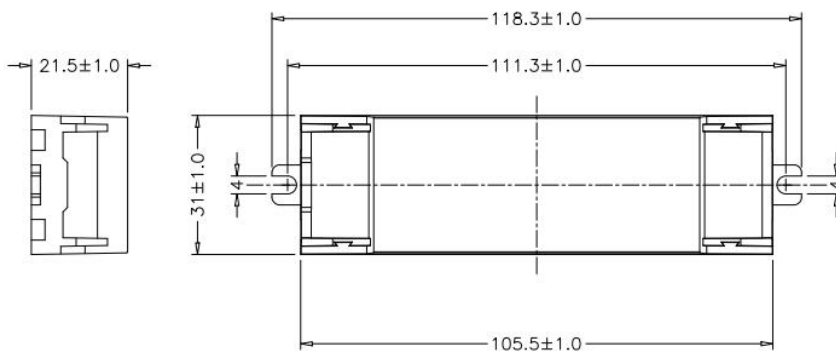
Ambient temperature range	-20 ... +50°C
Operation humidity range	10 ... 85%RH
Storage temperature range	-25 ... +85°C
Storage humidity range	5 ... 95%
Maximum temperature at tc point	85°C for 15W/23W 90°C for 36W

Expected lifetime

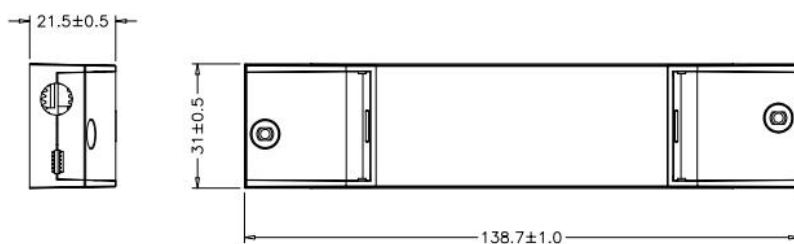
Expected lifetime at measured temp. at tc point	85°C for 15W/23W 90°C for 36W	50000h
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Dimensions: (Unit: mm)

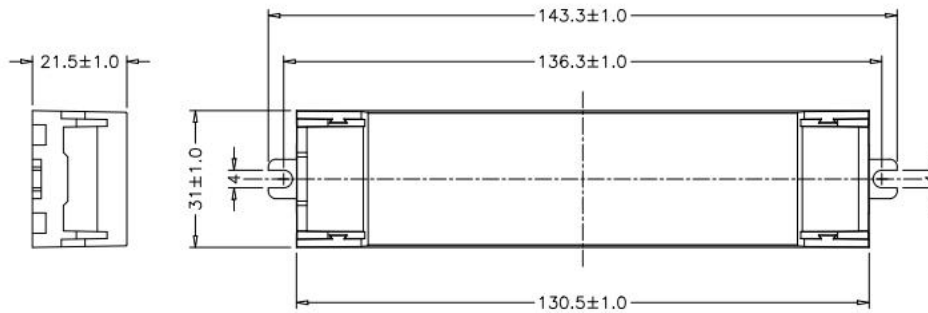
Built-in :118.3*31*21.5mm (L*W*H) 15W/23W



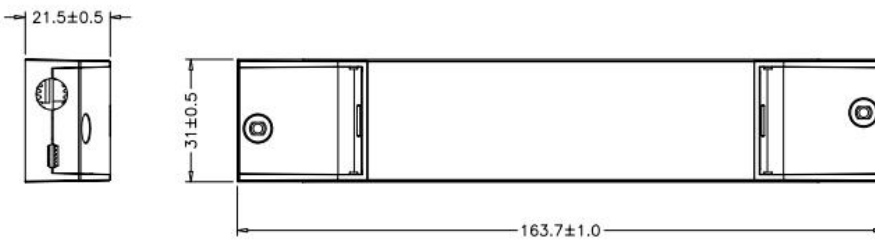
independent:138.7*31*21.5mm (L*W*H) 15W/23W



Built-in:143.3*31*21.5mm (L*W*H) 36W



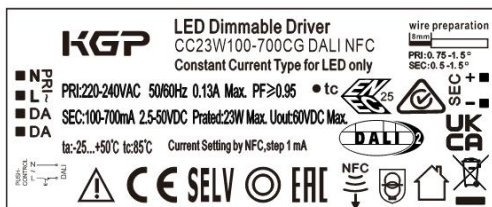
independent:143.3*31*21.5mm (L*W*H) 36W



Wiring And Connections

Connectors	Direct Lead
Output wire cross-section	0.5-1.5 mm ²
Output wire strip length	8-9 mm
Maximum length	/

Product Label



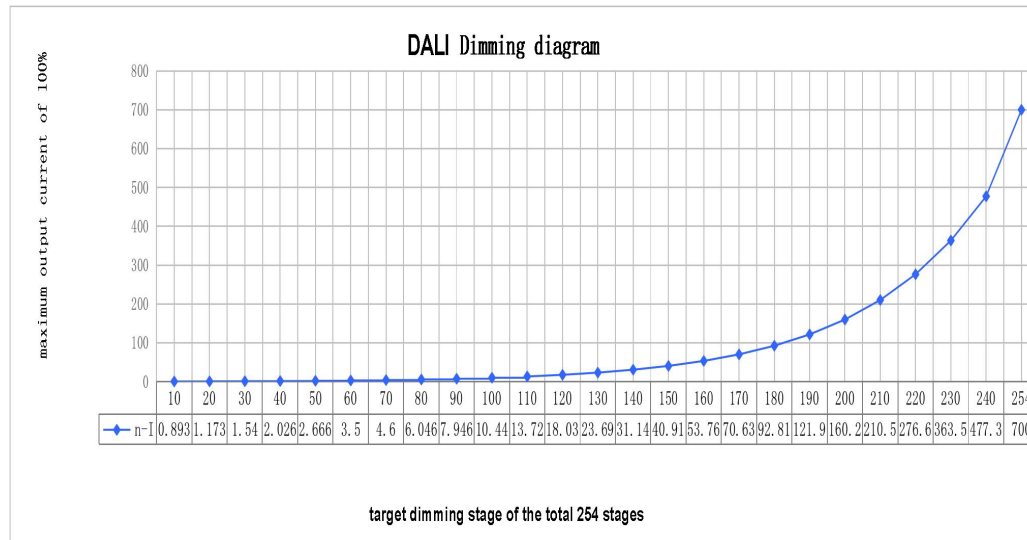
Dimming Curve

formula for DALI dimming.

$$X(n)=10^{\left[\frac{(n-1)}{(253/3)}\right]-1},$$

Here, n means the target dimming stage of the total 254 stages.

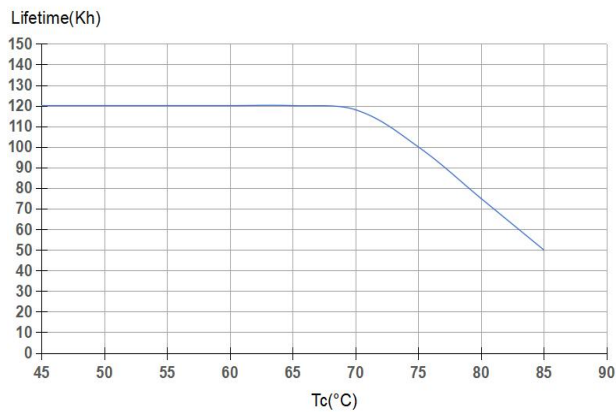
X(n) means the percent of the maximum output current



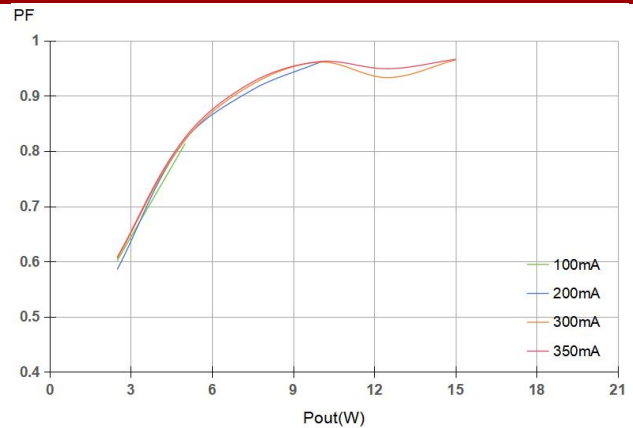
Graphs

CC15W100-350CG DALI NFC

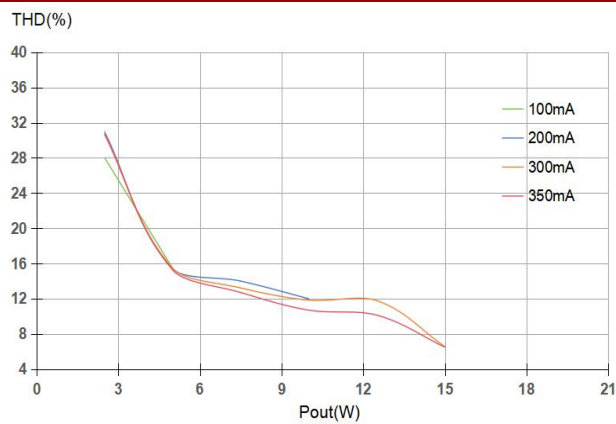
Lifetime vs. Case Temperature



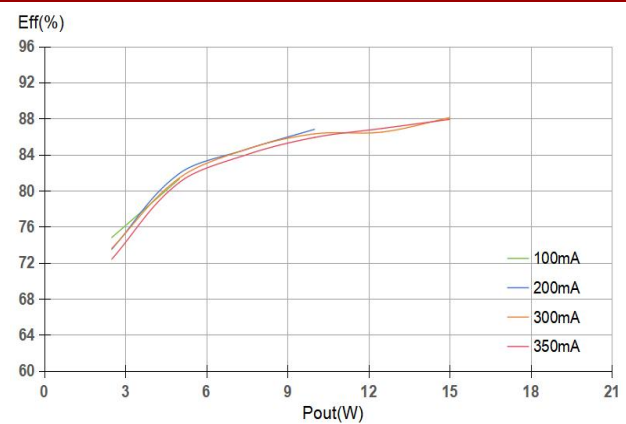
PF vs. Load



THD vs. Load

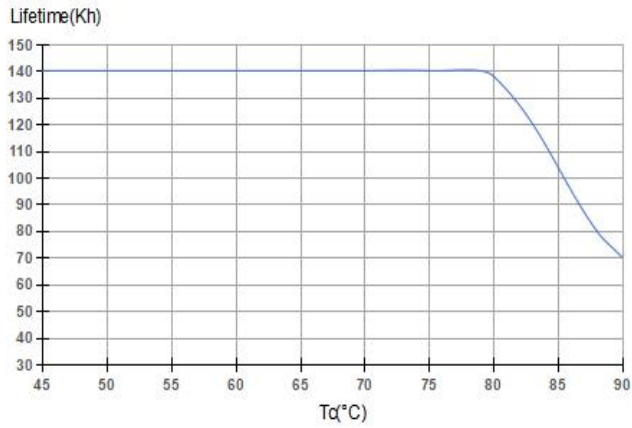


Efficiency vs. Load

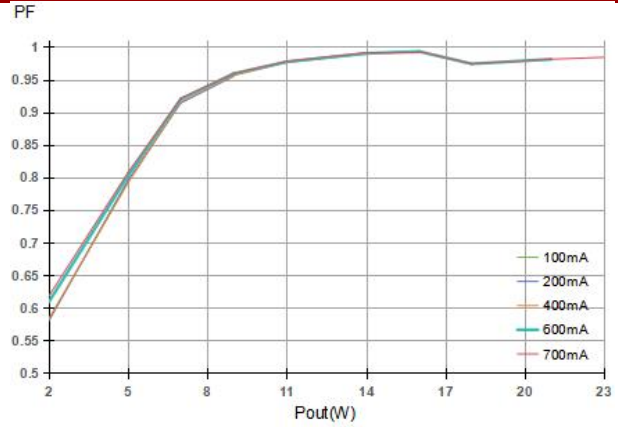


CC23W100-700CG DALI NFC

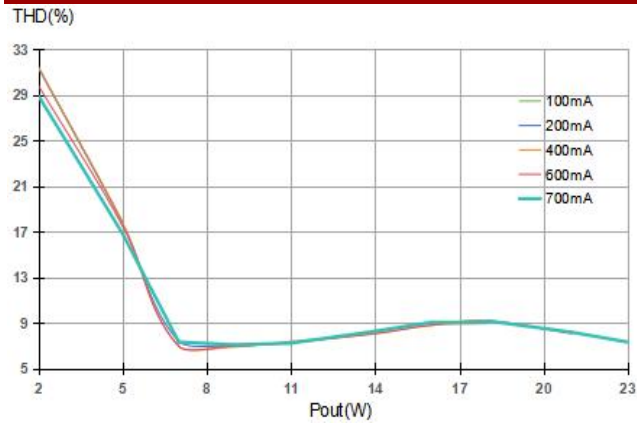
Lifetime vs. Case Temperature



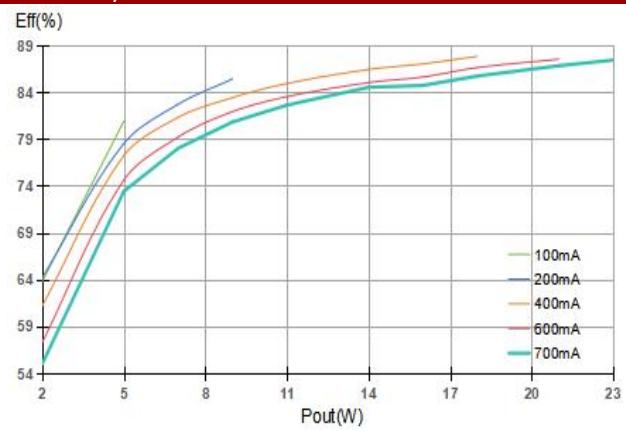
PF vs. Load



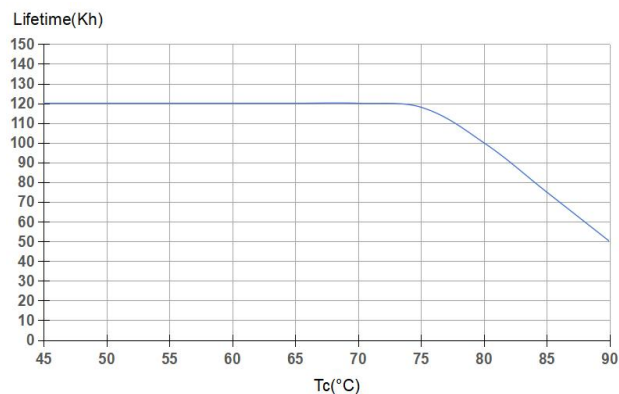
THD vs. Load



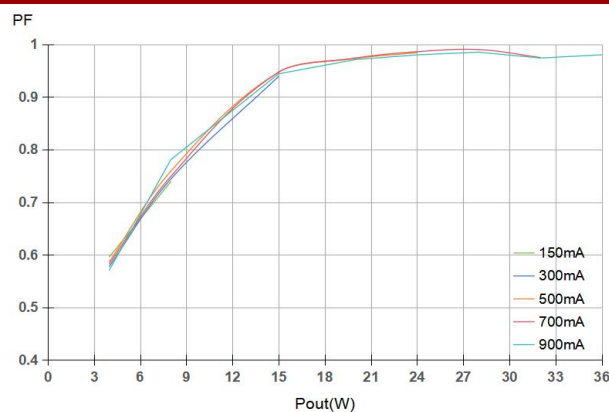
Efficiency vs. Load



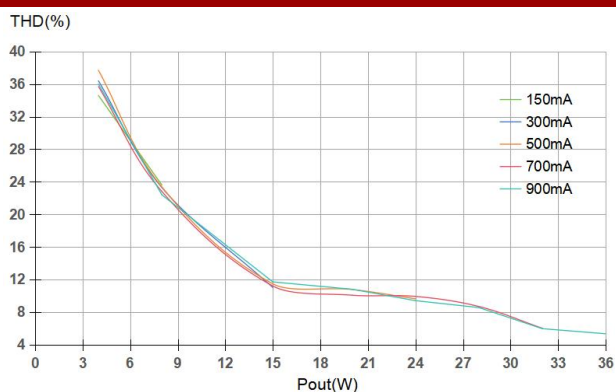
Lifetime vs. Case Temperature



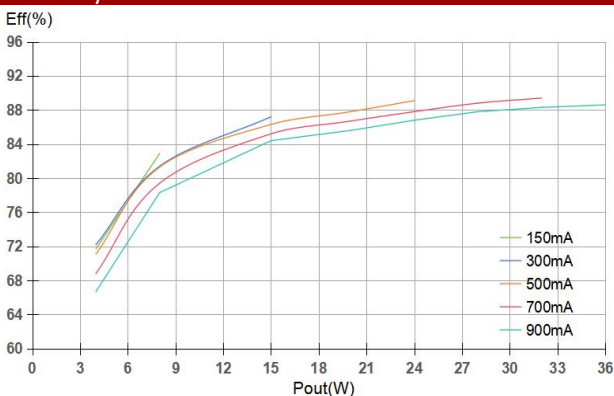
PF vs. Load



THD vs. Load



Efficiency vs. Load



Certificates and standards

EN 61347-1:2015/A1:2021
 EN 61347-2-13:2014/A1:2017
 EN IEC 62384:2020
 EN 62493:2015/A1:2022
 AS61347.2.13:2018
 AS/NZS61347.1:2016 Inc A1 Amd 1:2018
 GB 17625.1-2022
 GB/T 17743-2021
 GB 19510.1-2023
 GB 19510.213-2023
 EN IEC 55015:2019/A11:2020

EN IEC 61000-3-2:2019/A1:2021
 EN 61000-3-3:2013/A2:2021
 EN IEC 61547:2023
 BS EN 61347-1:2015/A1:2021
 BS EN 61347-2-13:2014/A1:2017
 BS EN 62493:2015/A1:2022
 BS EN IEC 62384:2020
 BS EN IEC 55015:2019
 BS EN IEC 55015:2019+A11:2020
 BS EN IEC 61000-3-2:2019/A1:2021
 BS EN 61000-3-3:2013+A2:2021
 BS EN IEC 61547:2023

SELV



Safety Features

- Transient mains peaks protection:
Values are in compliance with EN62384
(Interference Immunity)
Surges between L-N: up to 2kV
 - Short-Circuit Protection: The control gear is protected against
 - Permanent short-circuit with automatic restart function.
 - Overload Protection: The control gear only works in range of rated output power and voltage (< 60VDC)
 - Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).
 - Overheating: The control gear has overheating protection.
 - No Load Operation: The control gear is protected against no load operation (open load)
 - If any of the above mentioned safety functions will be triggered disconnect the control gear from the power supply then find and eliminate the cause of the problem.
-
- SELV
 - $SVM \leq 0,4$
 - $PstLM \leq 1$
 - Open Circuit Voltage (U_{max}): 60V
 - Noise: $\leq 22dB$ @ Background noise $\leq 15dB$, Interval $\geq 20cm$
 - Insulation voltage: 3750V 5mA 60S between P-S
 - Insulation resistance : $> 100M \text{ ohm}$ @ 500VDC
 - Leakage current: I/P to O/P $< 0.7mA$
 - Started Delay Time: $\leq 1S$ (230VAC, full load)

Wiring Diagram:

Fig. A: Push Dimming

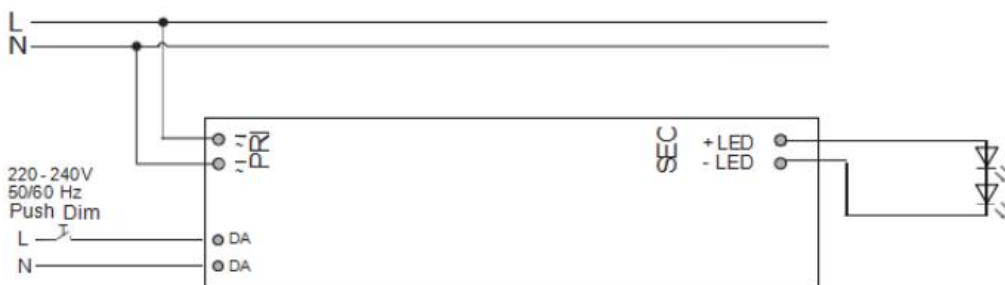


Fig. B: DALI Dimming



The factory default brightness is at 100%.

Up to 64 drivers can perform the PUSH dimming at the same time when utilizing one common push button

The maximum length of the cable from the push button to the last driver is 200 meters

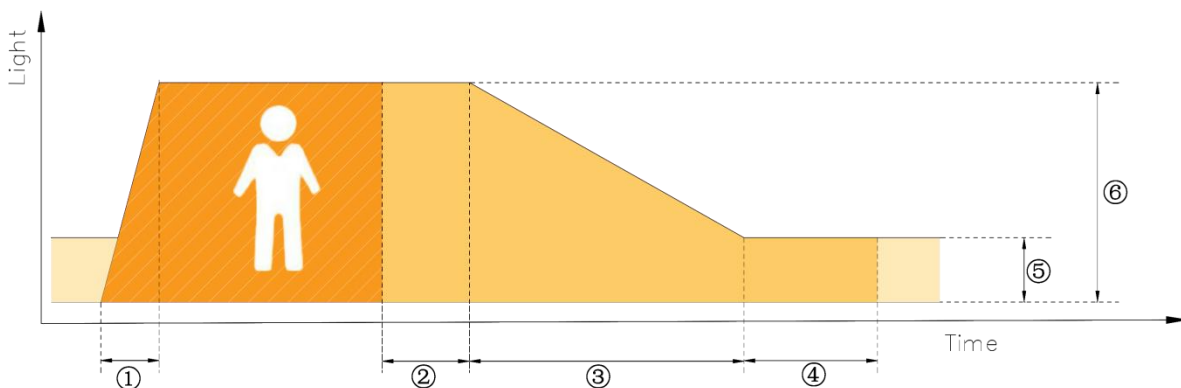
Functions

- OEM Identification
- The OEM (Original Equipment Manufacturer) can set his own identification number.
- DALI Part 251: Memory bank 1 extension.
- OEM GTIN
- The Original Equipment Manufacturer (OEM) can set his own Global Trade Item Number (GTIN).
- DALI Part 251: Memory bank 1 extension.
- Luminaire data
- This function provides the asset management with accurate data about the luminaire.
- DALI Part 251: Memory bank 1 extension.
- DALI Part 253: Luminaire maintenance data.
- LED current
- The LED output current must be adapted to the connected LED module.
- The value is limited by the current range of the respective device.
- The output current of the LED driver can be adjusted in a certain range.
- Adjustment is done by KGP Configurator via NFC.

Push functions:

Action	Action duration	Function
Short push	<0.6s	Turn on/off
Short push five Times	<3s	Quit Corridor mode
Long push	0.6-3s	Dimming up or down
Long push	10s	Sync all LEDs to be 50% brightness, and the dimming rate is changed to 3S
Long push	20s	Dimming rate is changed to 6S
Long push	>2mins	Enter Corridor mode - LED keep 100% brightness for 2mins.

- Switch DIM
- Integrated Switch DIM function allows a direct connection of a push button for dimming and switching.
- Brief push (< 0.6 s) switches LED driver ON and OFF. The dim level is saved at power-down and restored at power-up. When the push button is held, LED modules are dimmed. After repush the LED modules are dimmed in the opposite direction.
- In installations with LED drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED drivers can be synchronized to 50 % dimming level by a 10 s push.
- Use of push button with indicator lamp is not permitted.
- Corridor FUNCTION
- With the Corridor FUNCTION and a commercially available motion detector, it is easy to adapt the lighting in one area to its use.
- That is, when the area is entered by a person, the lighting dims instantly to the desired brightness and is available in full strength.
- After the area is left by the person, the brightness dims slowly to a smaller value or switches off completely.
- The individual parameters of the desired profile, such as brightness values or delay times, can be adjusted flexibly and individually.



- Fade-in time(1s): the time that starts as soon as the presence of a person is detected. During the fade-in time the luminous intensity is faded up to the presence value.
- Run-on time(120s): the time that starts as soon as the presence of a person is no longer detected. If the presence of a person is detected again during the run-on time the run-on time is restarted from zero. If no presence is detected during the run-on time the fade time is started as soon as the run-on time expires.
- Fade time(32s): the time during which the luminous intensity is faded from the presence value to the absence value.
- Switch-off delay (Never Off): the time during which the absence value is held before the lighting is switched off. Depending on the profile selected the switch-off delay may have different values or may not be defined.
- Absence value(default: 10 %): the luminous intensity when there is no person present.
- Presence value (default: 100 %): the luminous intensity when persons are present.

- Constant Light Output (CLO)
- With this function the light output of the LED module can be kept equal over the lifetime.
- The light output of an LED module reduces over the course of its lifetime.
- The Constant Light Output (CLO) function compensates for this natural decline by constantly increasing the output current of the LED driver throughout its lifetime.
- CLO shall be achieved by limitation of the LED current at the commissioning of the LED driver and providing a linear interpolation of the current over the time, depending on the data points given by the user.
- The user has to insert up to eight pairs of data (time, level).
- The output curve is the result of connecting the user data points linear.
- Detailed description for CLO see product manual.
- The minimal CLO starting point is limited by the smallest output current of the LED driver.

- Dimming curve
- DALI: The desired dimming behaviour is selected via two different dimming curves (logarithmic or linear).
- The default setting of the dimming behaviour is logarithmic.

Near Field Communication (NFC)

NFC Software User Guide

NFC user manual web version download link: <https://www.kg-power.com/download.html>

Number of drivers per cut-out type

Type	B10A	B13A	B16A	B20A	B25A	C10A	C13A	C16A	C20A	C25A	D10A	D13A	D16A	D20A	D25A
CC15W100-350CG DALI NFC	13	17	21	27	33	21	28	34	43	53	34	44	55	68	85
CC23W100-700CG DALI NFC	13	17	21	27	33	21	28	34	43	53	34	44	55	68	85
CC36W150-900CG DALI NFC	13	17	21	27	33	21	28	34	43	53	34	44	55	68	85

Packaging unit

Built-in

Model	Packaging Carton	Packaging Pallet	Carton L*W*H (mm)	Net weight/ Pcs (g)	Net weight/ Carton (kg)	Gross weight/ Carton (kg)
CC15W100-350CG NFC	80	60	275*170*235	56	4.48	5.28
CC23W100-700CG NFC	80	60	275*170*235	61.6	6.16	6.96
CC36W150-900CG NFC	80	60	275*170*235	115	9.2	10

independent

Model	Packaging Carton	Packaging Pallet	Carton L*W*H (mm)	Net weight/ Pcs (g)	Net weight/ Carton (kg)	Gross weight/ Carton (kg)
CC15W100-350CG DALI NFC	100	60	370*185*245	100	6.7	7.26
CC23W100-700CG DALI NFC	100	60	370*185*245	89	8.9	9.46
CC36W150-900CG DALI NFC	100	60	370*185*245	100	12.9	13.46

Revision history

DATE	REV	REMARK
2026.04.03	V1.0	Initial release
2026.07.14	V1.1	Change the silk screen drawing