



Constant Voltage Dimmable Driver

Model: CV60W(24-48)CG DALI



Model	Output Current	Input Current	Input Power	Output Power Range	Prated min	PF	Efficiency (*Typical)	Output Voltage	No load Voltage	Cementi product
CV60W24CG DALI	0.75-2.5A	≤0.38A	≤67W	18-60W	≥32W	≥0.95	92%	24V	24-25V	Y
CV60W48CG DALI	0.375-1.25A	≤0.38A	≤67W		≥32W		92%	48V	48-49V	Y

* Test result @230V, 50Hz, Full Load.

* Recommended minimum full load power is 30% load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimmable Type	DALI-2
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	0/50/60Hz
	Input Current	≤0.38A (230VAC, full load)
	Input Power	≤67W (230VAC, full load)
	Power Factor	≥0.98 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤62A/100us (CV60W24CG DALI 230VAC, full load) ≤62A/100us (CV60W48CG DALI 230VAC, full load)
Output	Output Voltage Range	23.5-24.5VDC (CV60W24CG DALI) 47.5-48.5VDC (CV60W48CG DALI)
	No Load Voltage	24-25VDC (CV60W24CG DALI) 48-49VDC (CV60W48CG DALI)
	Output Current	750mA -2500mA (CV60W24CG DALI) 375mA -1250mA (CV60W48CG DALI)
	Max. Output Power	60W
	Efficiency	≥92% (CV60W24CG DALI 230VAC, full load) ≥92% (CV60W48CG DALI 230VAC, full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)

	Output Voltage Ripple	<480mVPK-PK
	Line Regulation	±1%
	Load Regulation	±2%
	PstLM	≤1
	SVM	≤0.4
	Overshoot	<105%Vo
	Current Accuracy	±5%
	Started Delay Time	≤1S(230VAC, full load)
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length : 20m,same port of DALI)
	PUSH dimming terminal	Max parallel connections qty for Push-dim 64 PCS
	DALI function	DALI dimming (Max. lead wire length: 300m) Logarithmic or linear dimming curves are available DALI-2 certified incl. Parts 251, 252, 253,CLO
	Dimming range	DALI dimming: 1%-100%,Dim to off .
	Dimming frequency	8KHz
Protection	Short Circuit Protection	Auto Recovery
	Over Current Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P <0.7mA
Environment	Ta/Operation Temperature	-20....+50°C
	Ts/Storage Temperature	-25....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-1.5 [□] / 8-9mm
	SEC Wire preparation	0.5-1.5 [□] / 8-9mm
	DALI Wire preparation	0.75-1.5 [□] /8-9mm
	Dimension	151.5*40.2*31mm (L*W*H)
Standards	Certification	CE UKCA EAC ENEC SAA EL
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN 62493:2015 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1 BS EN 61347-1:2015/A1:2021 BS EN 61347-2-13:2014/A1:2017 BS EN 62493:2015 BS EN IEC 62384:2020

	EMC Standards	EN IEC 55015:2019 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
	Performance	EN62384:2020
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	REACH	EU Regulation (EC) No 1907/2006
	Life Time	50000h @Ta/ Tc
	Warranty	5years ,F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB ,Interval≥15cm

Remark:

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.
2. LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
3. During the PUSH DIM test, the number of parallel connections must be less than 64 PCS
4. Do not install upside down.

2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current(A)	Time (μs)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B	10	13	15	19	24	@230VAC	62	100	
TYPE C	15	20	25	31	39				
TYPE D	25	32	40	50	62				

3. Label

CV60W24CG DALI



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LED Dimmable Driver
CV60W24CG DALI
130391
Constant Voltage Type for LED Only

wire preparation
8mm PRI 0.75-1.5
SEC 0.5-1.5

INPUT:220-240V~0/50/60Hz 0.31A Power Factor(λ):≥0.95

OUTPUT:Urated:24V~0.75-2.5A Prated:18-60W

ta:-20...50°C tc:85°C

● tc






OUTPUT + □
- □








L INPUT

N INPUT

DA DIM

DA DIM



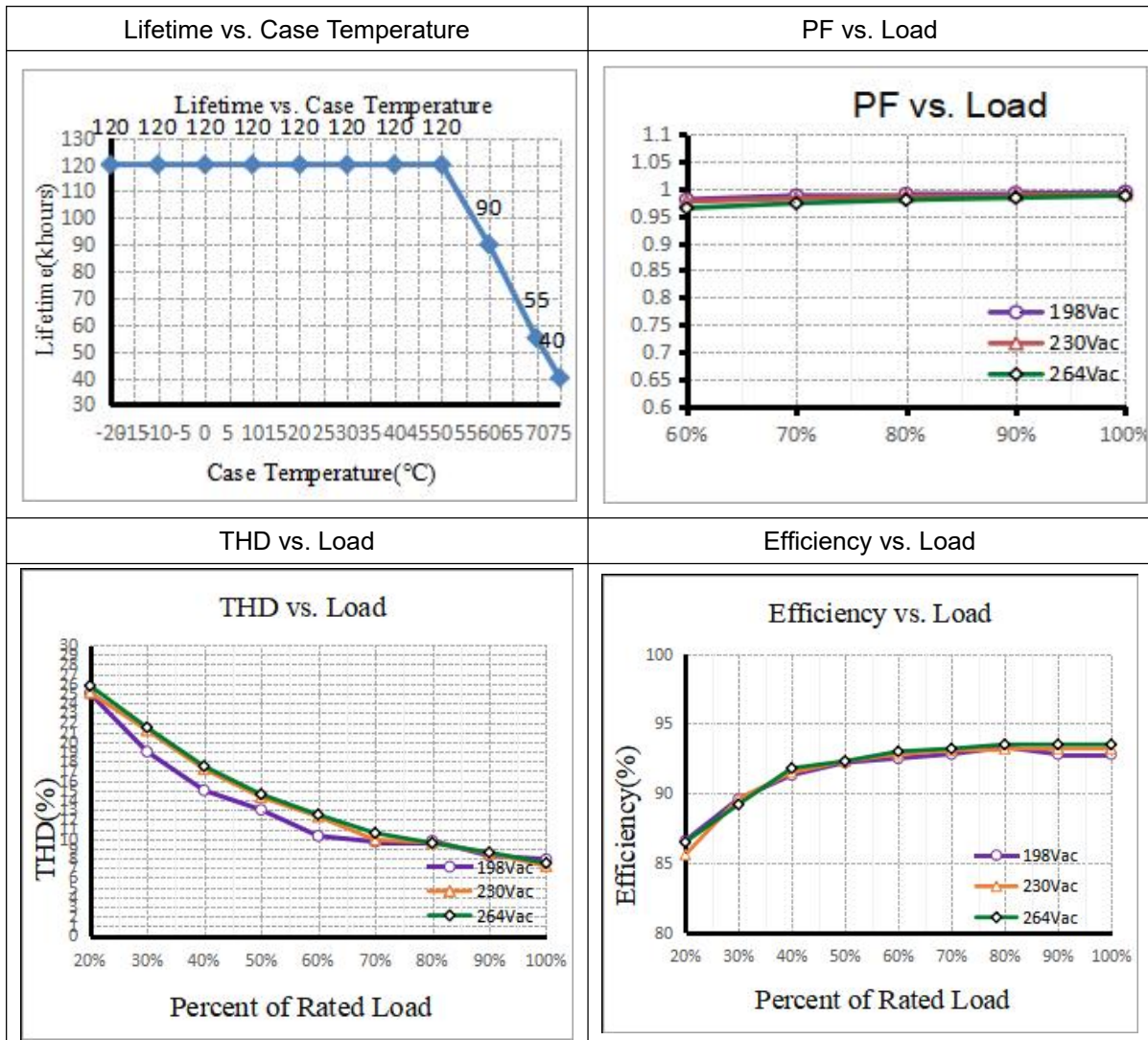




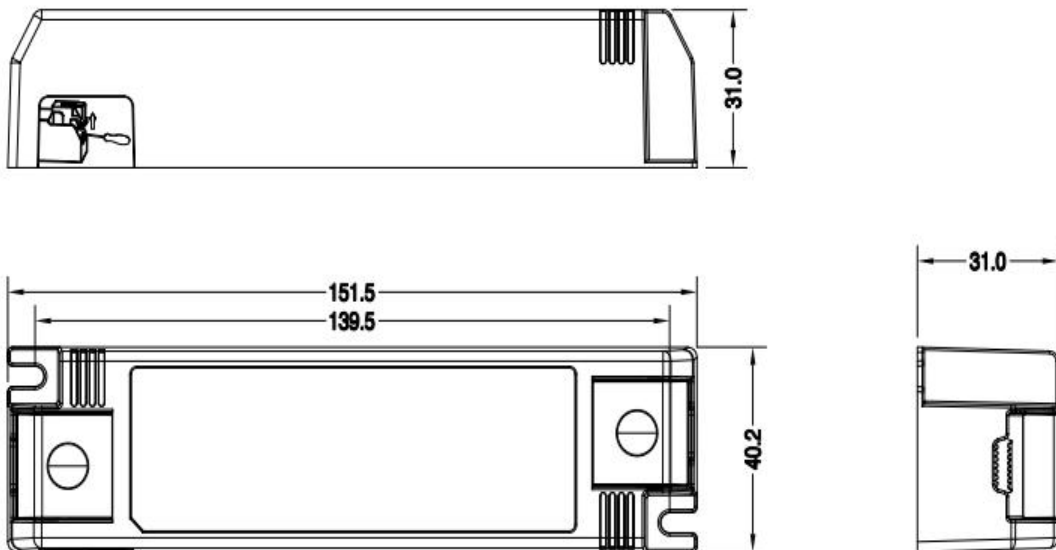

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5. Electrical values



6. Dimension (Unit: mm)



7. Wiring Diagram

Fig. A: DALI Dimming

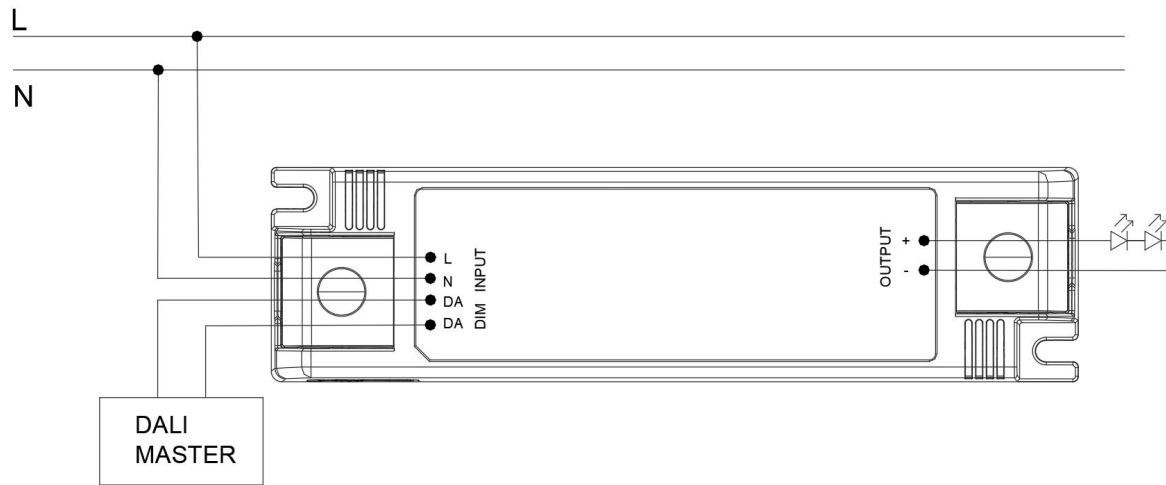
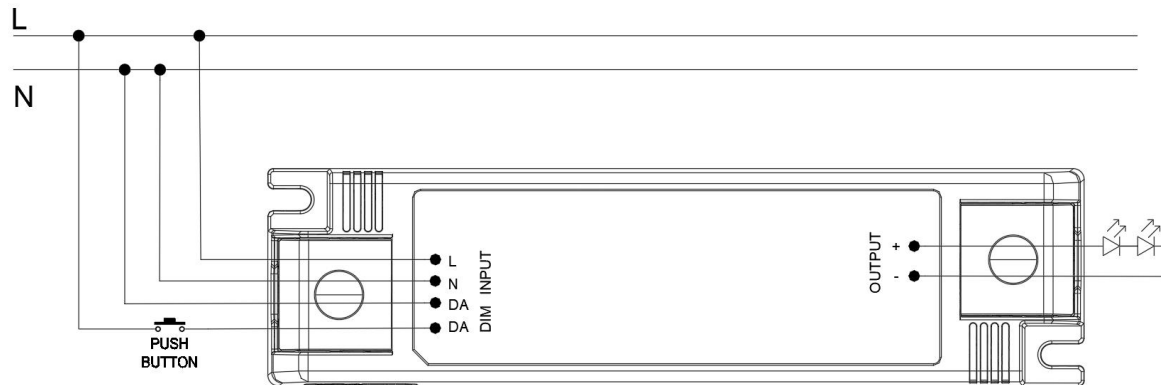


Fig. B: Push Dimming



1. The factory default brightness is at 100%.
2. Up to 64 drivers can perform the PUSH dimming at the same time when utilizing one common push button
3. The maximum length of the cable from the push button to the last driver is 200 meters

8. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
Industrial	CV60W24CG DALI CV60W48CG DALI	310*220*175	40	0.186	7.44	8.61
With white box		365*225*175	50	0.186	9.3	10.64

9. Wiring instructions

- All connections must be kept as short as possible to ensure good EMI behaviour
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Advise the maximum length of output wires is 0.5 m
- Secondary switching is not permitted (Except for constant voltage)
- Incorrect wiring can damage LED modules.
- The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

10. Replace LED module

- Remove LED module
- Wait for 30 seconds
- Connect LED module again
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

11. Functions

11.1 OEM Identification

The OEM (Original Equipment Manufacturer) can set his own identification number.

DALI Part 251: Memory bank 1 extension.

11.2 OEM GTIN

The Original Equipment Manufacturer (OEM) can set his own Global Trade Item Number (GTIN).

DALI Part 251: Memory bank 1 extension.

11.3 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.

11.4 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.

More 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.

11.5 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.

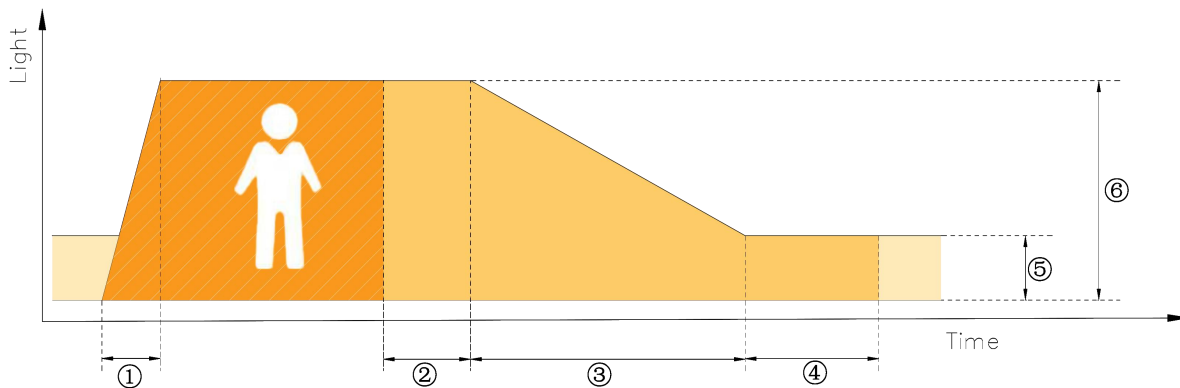
11.6 Corridor FUNCTION

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.



- ① 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.
- ② 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.
- ③ Fade time(32s): the time during which the luminous intensity is faded from the presence value to the absence value.
- ④ 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.
- ⑤ Absence value(default: 10 %): the luminous intensity when there is no person present.
- ⑥ Presence value (default: 100 %): the luminous intensity when persons are present.

11.7 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.

11.8 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.

12. REVISION HISTORY

DATE	REV	Modification details
2025-03-15	V1.0	Initial release.
2025-09-30	V1.1	Updating tags