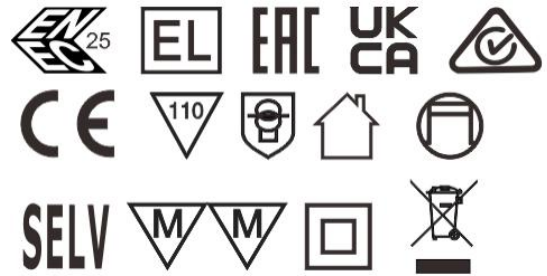




Constant Voltage Driver

Model: CV250W24CG



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (*Typical)	Output Voltage	No load Voltage	Cementig product
CV250W24CG	0-10.42A	≤1.3A	≤275W	250W	≥0.95	94%	24V	24-25.2V	Y

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

1. Parameters

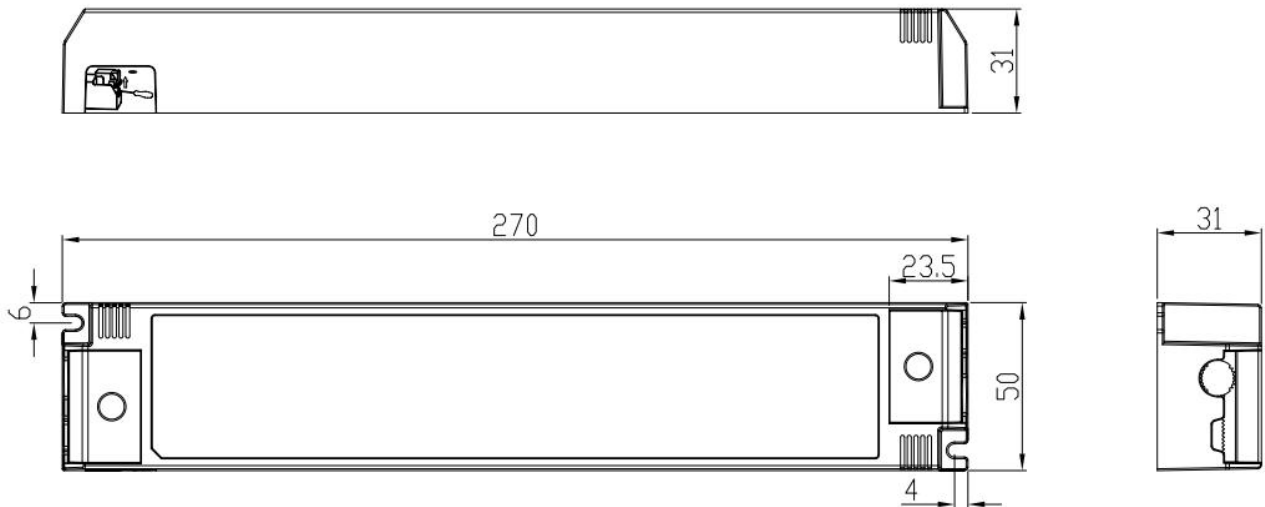
Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Output Features	Isolation SELV
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC or 180-280VDC
	Frequency	50/60Hz
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤7% (230VAC, full load)
	No-load Power Consumption	≤0.5W, @230VAC, Dim to OFF
	Inrush Current	≤70A/16us (230VAC, full load)
Output	Output Voltage	24VDC+5%
	No load Voltage	24VDC+5%
	Output Current	10.42A (Max. output)
	Max. Output Power	250W
	Efficiency	≥94% (230VAC, full load)
	Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)
	Output Voltage Ripple	<480mV _{PK-PK} (1%)
	Line Regulation	±1%
	Load Regulation	±2%
	PstLM	≤1
	SVM	≤0.4
	Overshoot	<105%Vo
	Current Accuracy	±5%
Started Delay Time	≤0.5S(230VAC, full load)	
Protection	Short Circuit Protection	Auto Recovery

	Over Current Protection	Auto Recovery
	Over Voltage Protection	110%-150%Vo, Auto Recovery
	Over Temperature Protection	90<Tc<110°C, 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	-25...+50°C
	Ts/Storage Temperature	-25...+85°C
	Tc/Enclosure Temperature	90°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-2.0 [□] / 8-9mm
	SEC Wire preparation	0.75-2.0 [□] / 8-9mm
	Dimension	270*50*31mm (L*W*H)
Standards	Certification	CE ENEC EAC EL UKCA SAA CB
	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 61547:2009
	Performance	EN62384:2020
	Surge	L-N:2KV
	Others	RoHS
	REACH	EU Regulation (EC) No 1907/2006
	Life Time	50000h @Ta/ Tc
	Warranty	5years ,F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB ,Interval≥15cm

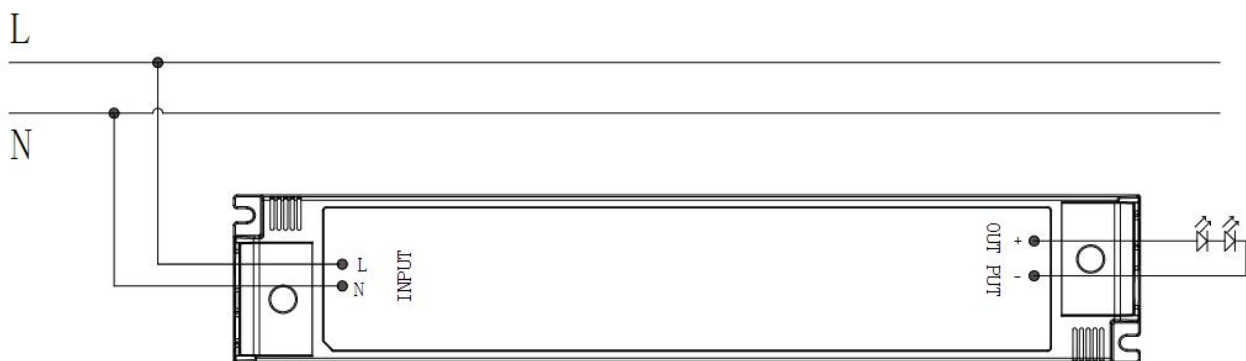
Remark:

- All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.
- LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
- Do not install upside down.

5. Dimension (Unit: mm)



6. Wiring Diagram



7. 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	CV250W24CG	375*235*195	20	0.592	11.84	12.34
With white box	CV250W24CG	430*290*135	24	0.592	14.20	14.70

8. 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)
- Advice 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.

9. Replace LED module

- Mains off
- 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

10. REVISION HISTORY

DATE	REV	Modification details
2024-12-12	V1.0	Initial release.
2025-01-13	V1.1	Packing way
2025-07-02	V1.2	Updating packing way, Label