
Constant Voltage Driver
Model:CV30W24CG-4


Model	Rated Input Voltage	Input Power	Input Current	PF	Output Power Range	Output Voltage	Output Current	Efficiency (typ.)	Cementing product
CV30W24CG-4	220-240VAC	≤36W	≤0.18A	≥0.95	30W	24V	1.25A	89%	N

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

* Recommended minimum power is 5% load.

1. Parameters

category	Item	Technical Norm				
Features	Output Type	Constant Voltage				
	Dimmable Type	Non-dimmable				
	Output Features	Isolation SELV				
	IP Grade	IP20				
	Insulation Class	Class II				
Input	Rated Input Voltage	220-240VAC				
	Range of AC Input Voltage	198-264VAC				
	Frequency	Rate:50/60Hz, Range:47~63Hz				
	Power Factor	≥0.95, 220-240VAC, Rated Load, see graphs ≥0.9 ,230VAC 30% Load				
	THD	≤10%	230VAC, Rated Load, see graphs			
		≤20%	230VAC 30% Load			
	No Load Power Consumption	≤0.5W, @230VAC,NO Load				
Output	Output Voltage	22.8-25.2VDC				
	No load Voltage	24-25.5VDC				
	Output Voltage Ripple	< 2% Vp-p				
	Line Regulation	≤ 1%				
	Load Regulation	≤2%				
	filcker	SVM ≤0.4, PstLM ≤1.0				
	Start-up Time	≤0.5S (220-240VAC) Full load				
	Rise Time	5.6mS (typ.) (220-240VAC) Full load				
	Hold-up time & Turn off time (Typical)	Model	Hold-up time(mS)	Turn-off time(mS)	230VAC, LED Rated Load, Hold-up time measure from AC input turn-off to output voltage drop to 90%, turn-off time measure from AC input turn-off to output	
		30W	32	39		

					voltage drop to 10%
	Efficiency	30W	≥88%	89% typ.	230VAC, Rated Load, at output terminals, see graphs
Protection	Short Circuit Protection	Auto Recovery			
	Over Current Protection	Auto Recovery			
	Over Voltage Protection	Auto Recovery			
	Insulation voltage	I/P to O/P,3.75KVac/5mA/1min			
	Insulation resistance	>100M ohm @ 500VDC			
	Leakage current	I/P to O/P < 250µA			
Environment	Ta/Operation Temperature	-20....+50°C			
	Ts/Storage Temperature	-25....+85°C			
	Tc/Enclosure Temperature For Safety	90°C (for 30W)			
	Humidity	5%-95%Storage ,10%-90% Operation			
	Atmosphere	86-108KPa			
Construction	Connection Method	Terminal			
	Cable Terminals	PRI	1 terminal block(L, N)		
		SEC	1 terminals block(LED+,LED-)		
	Installation	Independent			
	PRI Wire Cross Section	0.75mm ² -2.5 mm ² wire prepatation 6~7mm			
	SEC Wire Cross Section	0.5mm ² -2.5 mm ² wire prepatation 6~7mm			
	SEC Cable Length	Max. 3M			
	Cable diameters range	PRI	3-10mm		
		SEC	3-10mm		
	Dimension	30W	135*36*25mm (L*W*H)		
Standards	Certification	ENEC CCC UKCA SAA CB CE EAC			
	Safety 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 GB 19510.1-2009;GB 19510.14-2009;GB 19510.1-2023 GB 19510.213-2023,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 61547:2023 EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 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			
	Performance	EN62384:2020			
	Surge	L-N:2KV; L,N-PE:1KV			
Others	RoHS .Reach	2011/65/EU .EU Regulation (EC) No 1907/2006			
	Audible Noise	<20dB @ 20cm distance, 14 ± 1dB background			
		30W	≥50K Hrs	@230VAC , full load, see graphs.	

	Life Time		90°C@tc	End of Life: Failure Rate<10%.
	Warranty	5years		

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. Output ripple should be measured at the output end which has with 0.1uF/50V ceramic capacitance and 47uF/50V Aluminum capacitance connected in parallel. Measured using oscilloscope with bandwidth limited to 20MHz.

2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	Time (µS)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B	20	26	32	40	50	@230VAC	30	300	
TYPE C	32	42	51	64	80				
TYPE D	51	67	82	102	128				

3. Label



N
 L

Un= 220-240VAC
In= 0.18A Max.
fn= 50/60Hz
PF≥0.95

LED Driver LED控制装置
CV30W24CG-4
Constant Voltage Type for LED Only

Urated= 24VDC const.
Irated= 1250mA Max.
Prated= 30W Max.
ta: -20..50°C tc: 90°C

wire preparation


SELV

Uout=25VDC Max.



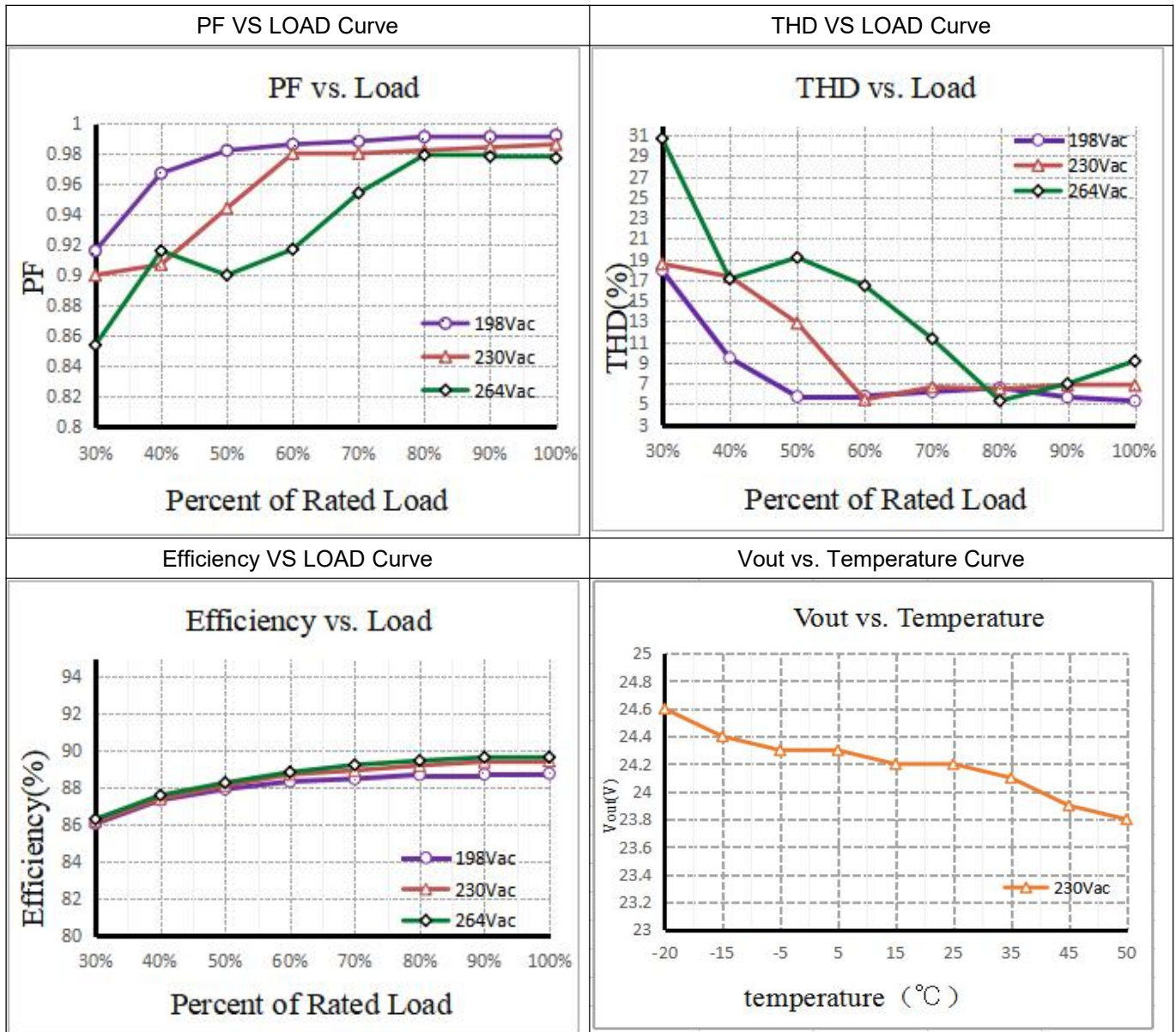




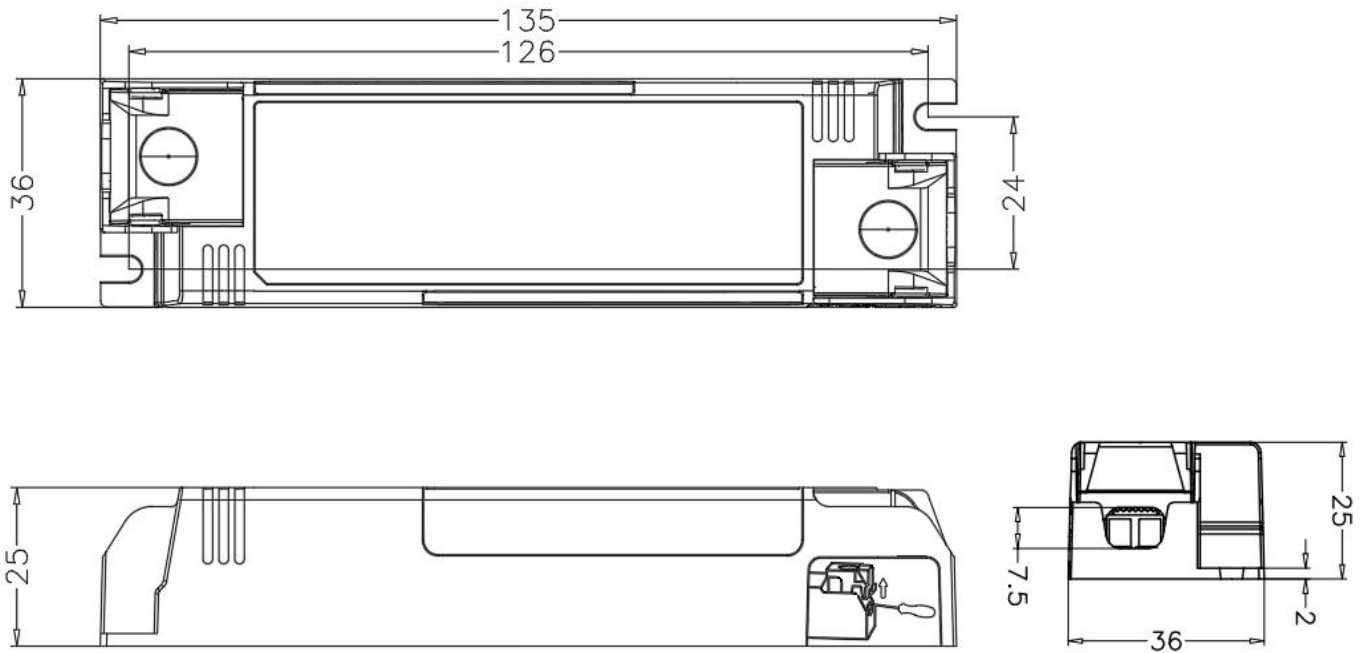


Note: laser engraving.

4. Graph



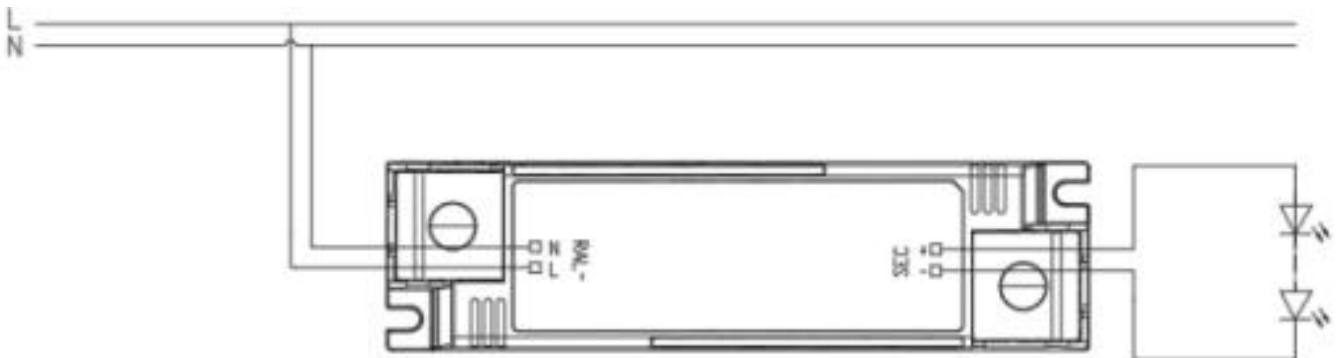
5. Dimension and Weight



Remark:

- Case color is RAL9016 , color difference is controlled at $\Delta E1.0$;
- The unmarked tolerance is $\pm 0.1\text{mm}$.

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)
With white box and manual	CV30W24CG-4	447*240*200	90	0.086	7.74	8.01

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 3 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).

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	REMARK
2025-09-27	V1.0	Initial release.