



Constant Voltage Driver

Model: CV48WXXCG-M



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (*Typical)	Output Voltage	No load Voltage
CV48W24CG-M	0-2A	0.28A	≤53W	0-48W	≥0.9	91%	24V	25V
CV48W48CG-M	0-1A	0.28A	≤53W	0-48W	≥0.9	91%	48V	51V

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

* Recommended minimum full load power is 10% load.

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Frequency	50-60Hz
	Input Current	≤0.27A (230VAC, full load)
	Input Power	≤52.8W (230VAC, full load)
	Power Factor	≥0.9 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤40A/150us (230VAC, full load)
Output	Output Voltage Range	24VDC+5% or 48VDC+5%(Potentiometer adjusts output voltage±2V)
	No Load Voltage	24VDC+5% or 48VDC+5%(Potentiometer adjusts output voltage±2V)
	Output Current	0-2000mA @24V
		0-1000mA @48V
	Max. Output Power	48W
	Efficiency	≥92% (230VAC, full load)
Current Ripple(< 120 Hz)	±5% (Imax-Imin)/(Imax+Imin)	

	Output Voltage Ripple	<240mV _{PK-PK} (0.5%)@24V
		<480mV _{PK-PK} (0.5%)@48V
	Line Regulation	±1%
	Load Regulation	±2%
	PstLM	≤1
	SVM	≤0.4
	Overshoot	<105%Vo
Started Delay Time	≤0.5S(230VAC, full load)	
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	Over Current Protection	110%-150%Vo, Auto Recovery
	Over Temperature Protection	/
	No-load Protection	/
	Insulation voltage	3750V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
Leakage current	I/P to O/P <0.7mA	
Environment	Ta/Operation Temperature	-20.....+40°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	0.75-2.5 ^² / 8-9mm
	SEC Wire preparation	0.5-2.5 ^² / 8-9mm
	Dimension	147.9*21.6*43mm (L*W*H)
Standards	Certification	CE EAC
	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	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. 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		40	52	64	80	100	@230VAC	15	382
TYPE C		64	83	102	128	160			
TYPE D		102	133	164	205	256			

3. Label



KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

Constant Voltage LED Driver
MODEL:CV48W24CG-M

SEC wire prep
0.5-2.5mm²
8-9mm

INPUT: 220-240V~ 50/60Hz 280mA Max. PF≥0.9

OUTPUT: 24V= 2A 48W Max. •tc

For LED modules only

tc: 85°C ta: -25...40°C

L ■


N ■

PRI wire prep
0.75-2.5mm²
8-9mm

■ -

■ +





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Constant Voltage LED Driver
MODEL:CV48W48CG-M

SEC wire prep
0.5-2.5mm²
8-9mm

INPUT: 220-240V~ 50/60Hz 280mA Max. PF≥0.9

OUTPUT: 48V= 1A 48W Max. •tc

For LED modules only

tc: 85°C ta: -25...40°C


L ■

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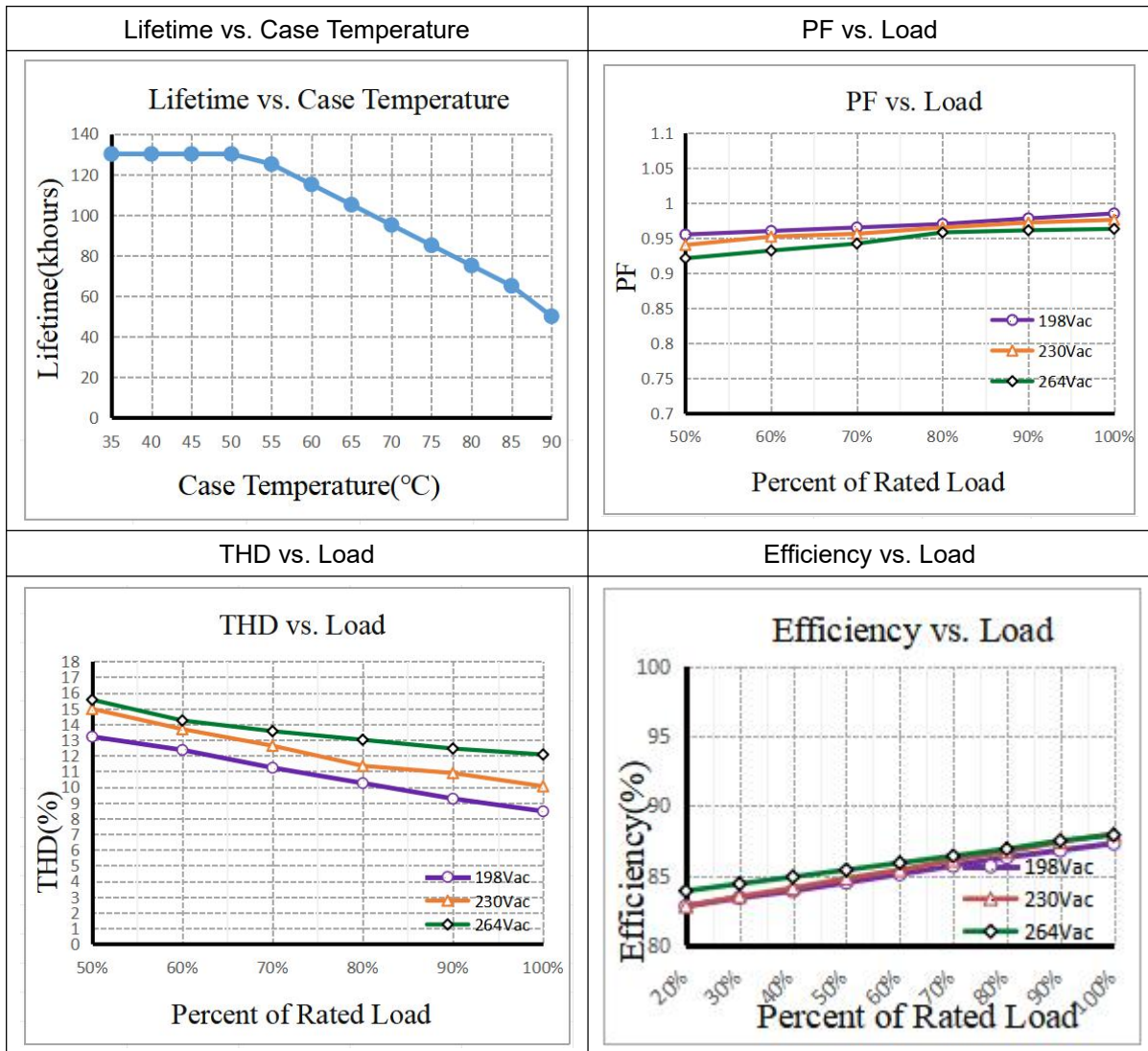
PRI wire prep
0.75-2.5mm²
8-9mm

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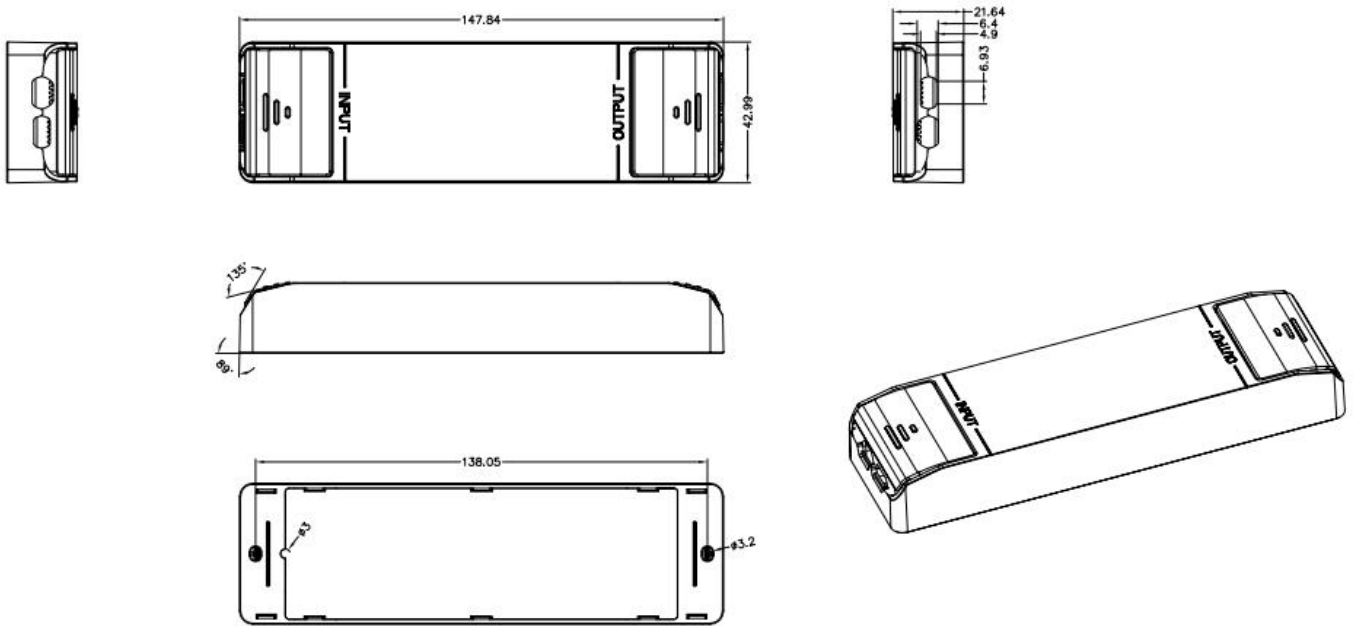
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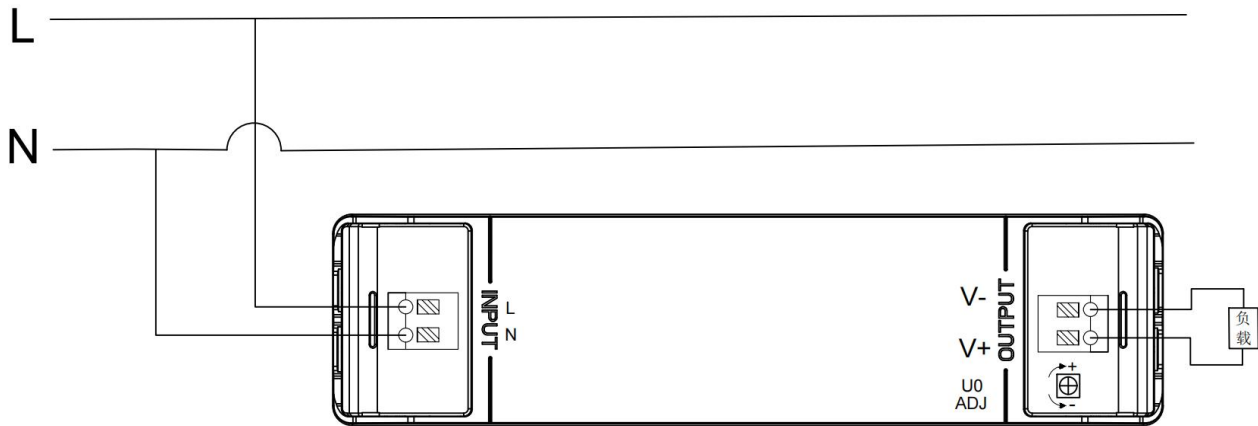
4. Electrical values



5. Dimension (Unit: mm)



6. Wiring Diagram



7. Packing information

Packing way	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
Industrial	447*240*200	90	0.109	9.81	10.74

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)
- Advise the maximum length of output wires is 0.8 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	Modification details
2025-03-28	V1.0	Initial release