Compact Constant Voltage Driver ON/OFF

CV30W24CG-4
CV60W24CG-4
CV120W24CG-4
CV180W24CG-4
CV250W24CG



Constant Voltage Driver

Product features

- Supply voltage 220-240 Vac ± 10%
- Range input voltage 198-264 Vac
- Range DC input voltage 180-280 Vdc
- Frequency: 50/60 Hz
- Class II
- Power factor ≥0,95 (at full load)
- Low rippel /
- Low THD ≤10% (at full load for 30W/60W/ 120W/180W)
  ≤7% (at full load for 250W)
- Type of protection: IP20
- SELV
- 50.000 Hours lifetime (At Ta Max.)
- 5 Years guarantee

Product benefit

- Compact shape, be either used built-in or independent with clip-on strain-relief
- Dimmable 24 V constant voltage LED driver for flexible constant voltage strips
- Energy saving, High Efficiency

Application

- LED Strips
- Decorative Lighting
- Linear Lighting



Product parameters

Model	Watt Range	Input Voltage	Mains current (A)	Inrush current (A/μs)	DC Operation Range	Output Voltage	Output Current	Efficiency (typical)	Power factor (full load)	Rippel 100Hz(%)
CV30W24CG-4	0-30W	220-240VAC	≤0.18A	30A/300μS	198-280VDC	24V	0-1.25A	89%	≥0.95	≤2%
CV60W24CG-4	0-60W		≤0.35A	45A/300μS			0-2.5A	89%		
CV120W24CG-4	0-120W		≤0.65A	50A/272μS			0-5A	93%		
CV180W24CG-4	0-180W		≤0.89A	50A/680μS			0-7.5A	93%		≤2.5%
CV250W24CG	0-250W		≤1.3A	70A/250μS			0-10.42A	94%		<2%

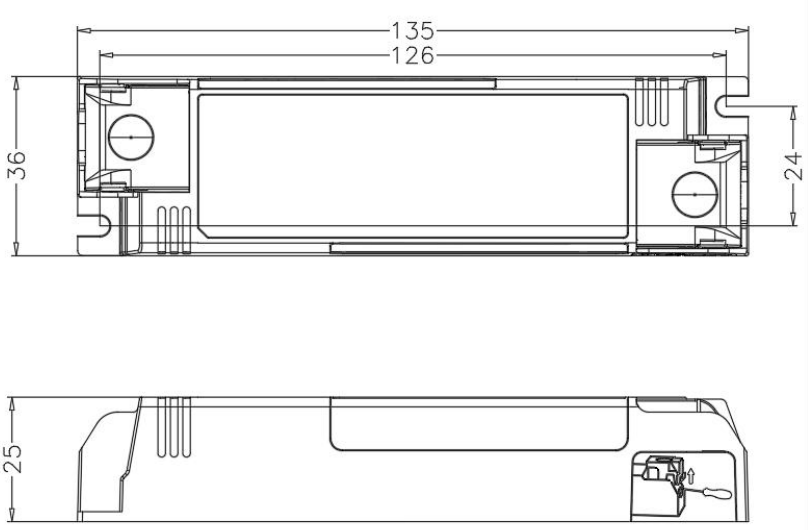
Operational temperatures and humidity

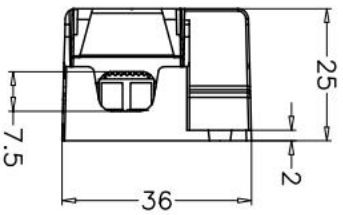
Ambient temperature range	-25 ... +50℃
Operation humidity range	10 ... 90%
Storage temperature range	-25 ... +85℃
Storage humidity range	5 ... 95%
Maximum temperature at tc point	90℃

Expected lifetime

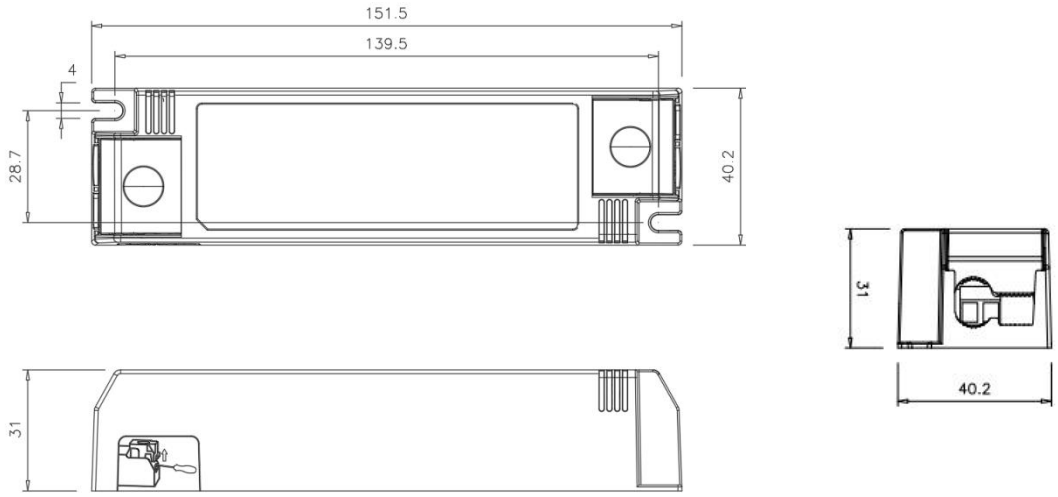
Expected lifetime at measured temp. at tc point	Ta=50℃	50000h

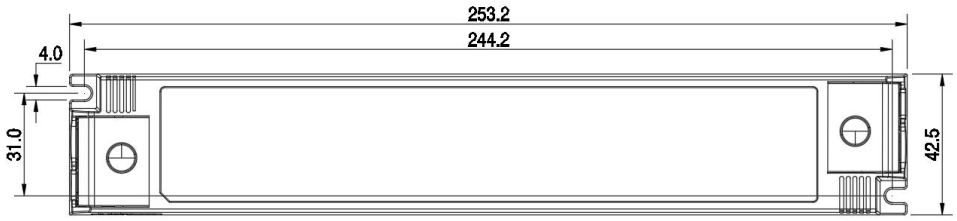
Dimensions: 135 x 36 x 25mm(L*W*H) 30W

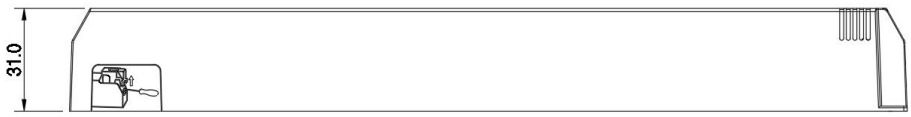


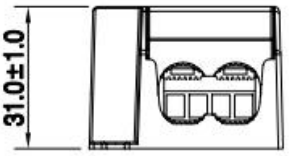


Dimensions: 151.5 x 28.7 x 31mm(L*W*H) 60W

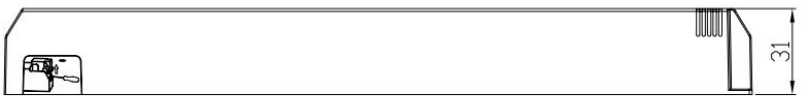


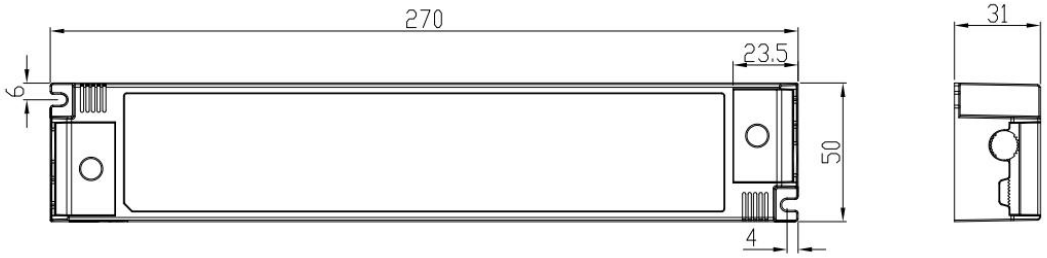






Dimensions: 270 x 50 x 31mm(L*W*H) 250W





Wiring And Connections

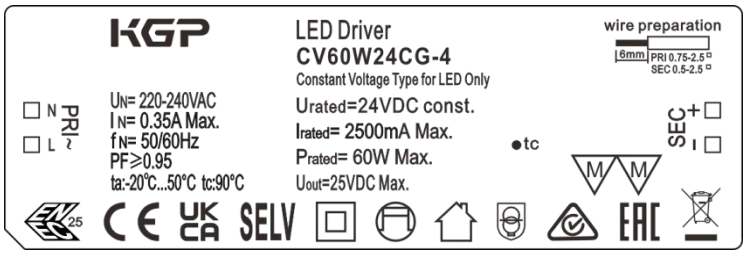
Connectors	Push in terminal
Input wire cross-section for 30W/60W/120W/180W	0.75mm²-2.5 mm²
Input wire cross-section for 250W	0.75mm²-2.0mm²
Output wire cross-section for 30W/60W	0.5mm²-2.5 mm²
Output wire cross-section for 120W/180W	2*0.5mm²-2.5 mm²
Output wire cross-section for 250W	2*0.75mm²-2.0mm²
Output wire strip length for 30W/60W/120W/180W	6-7 mm
Output wire strip length for 250W	8-9 mm
Maximum length	3 m

Product Label

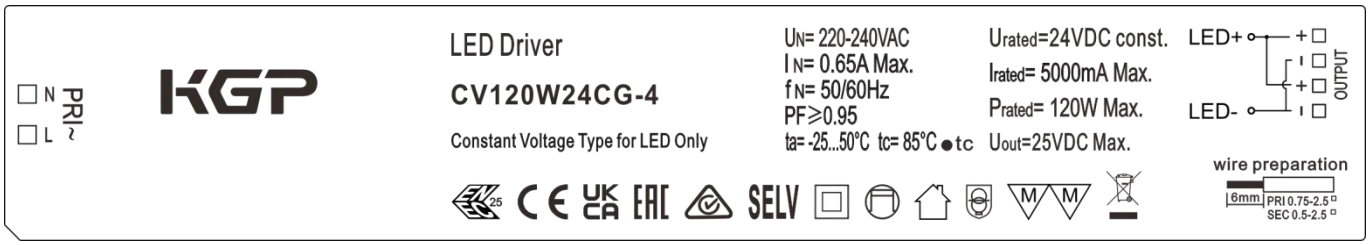
CV30W24CG-4



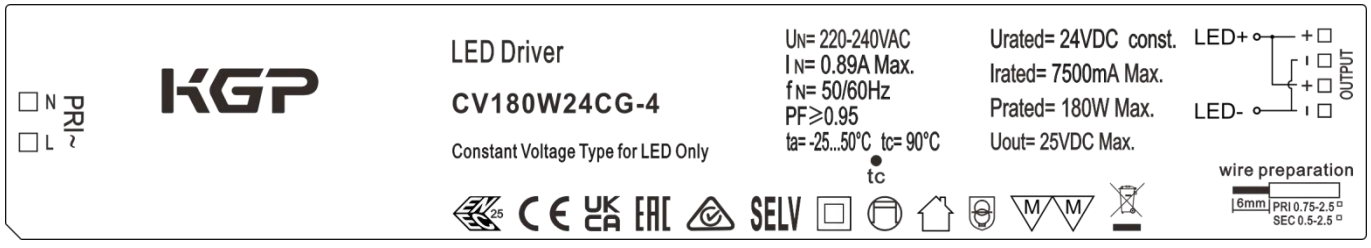
CV60W24CG-4



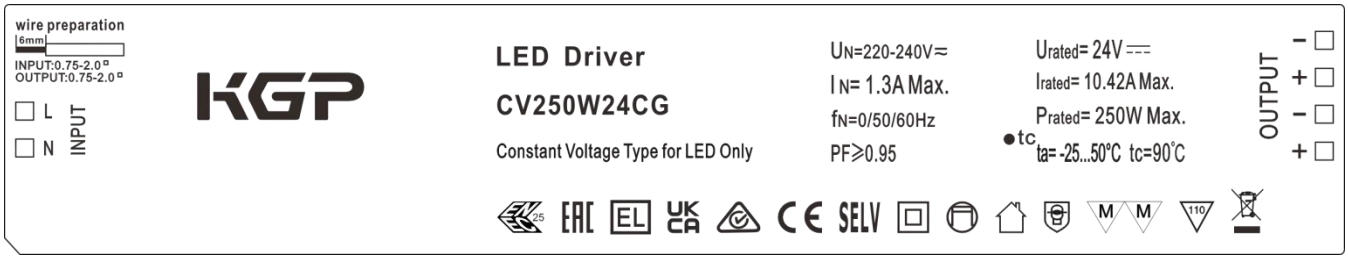
CV120W24CG-4



CV180W24CG-4



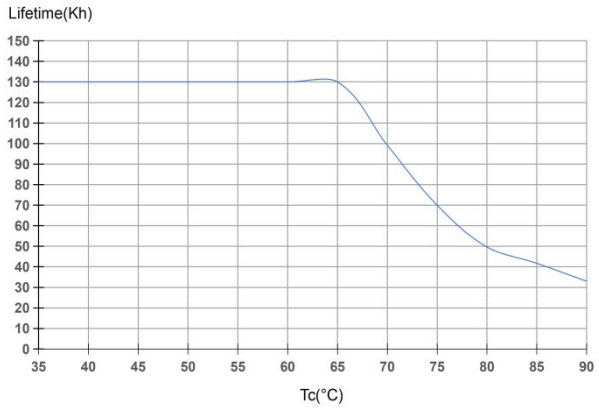
CV250W24CG



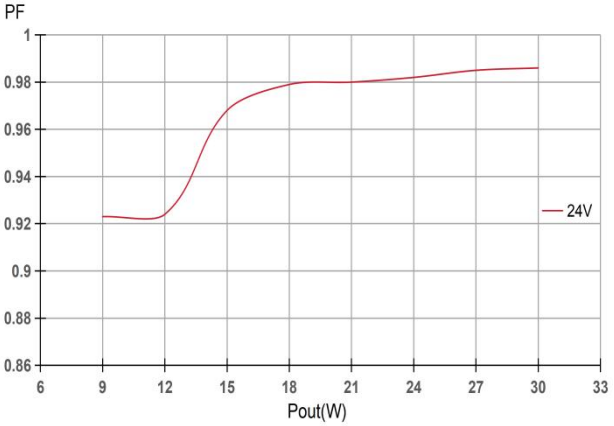
Graphs

CV30W24CG-4

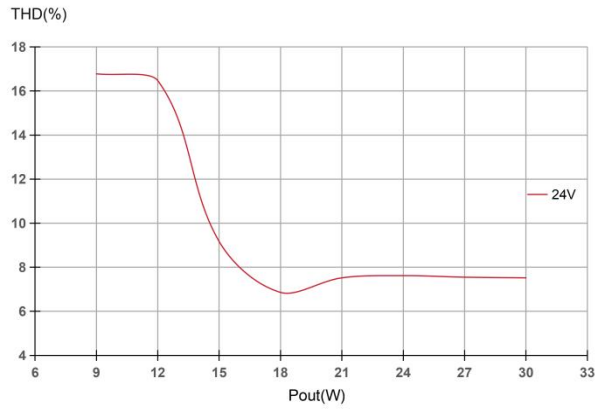
Lifetime vs. Case Temperature



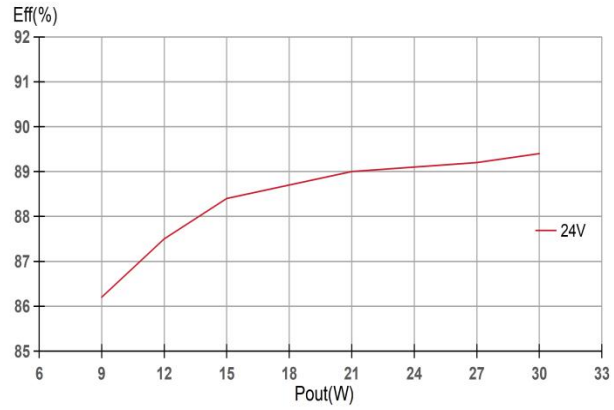
PF vs.Load



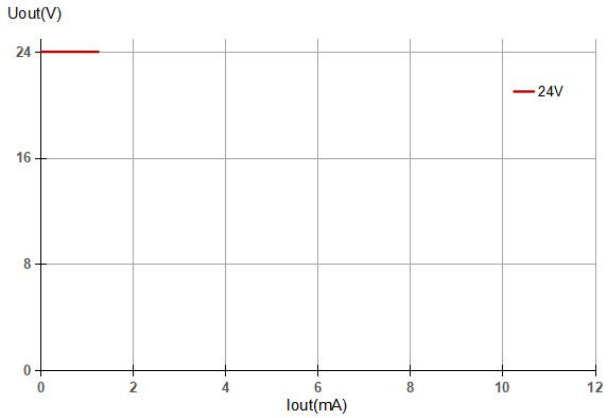
THD vs.Load



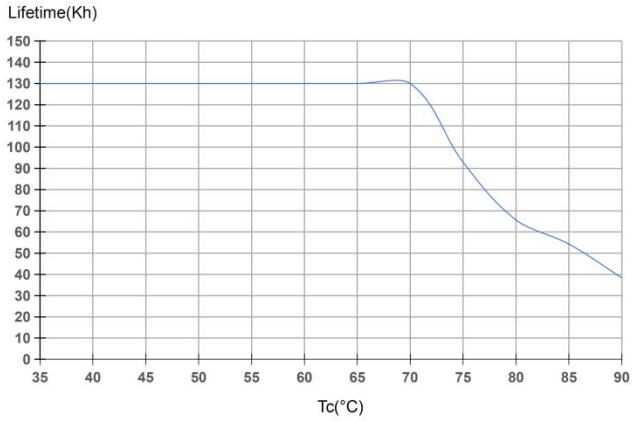
Efficiency vs. Load



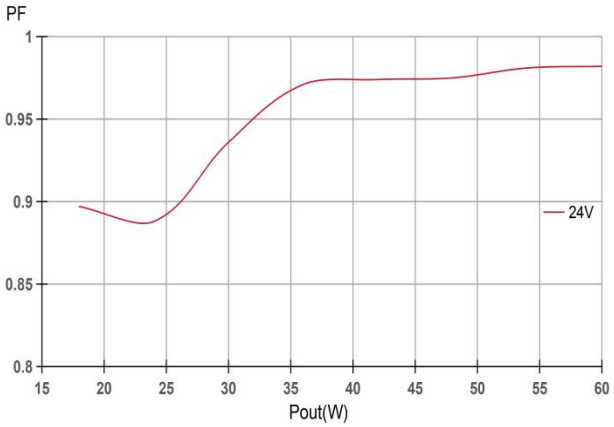
Uout vs.Iout



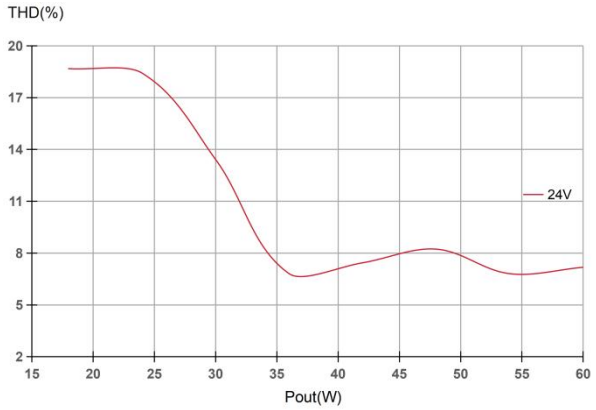
Lifetime vs. Case Temperature



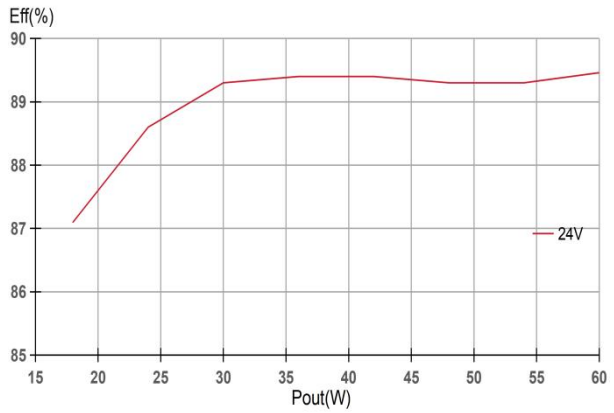
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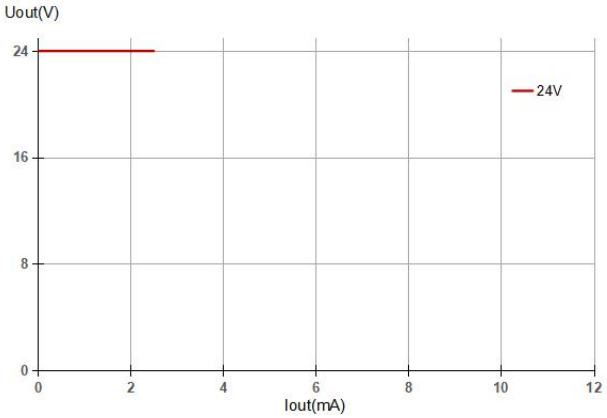
THD vs.Load



Efficiency vs. Load

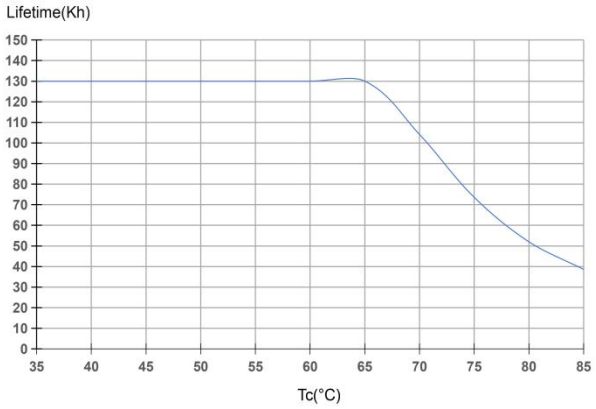


Uout vs.Iout

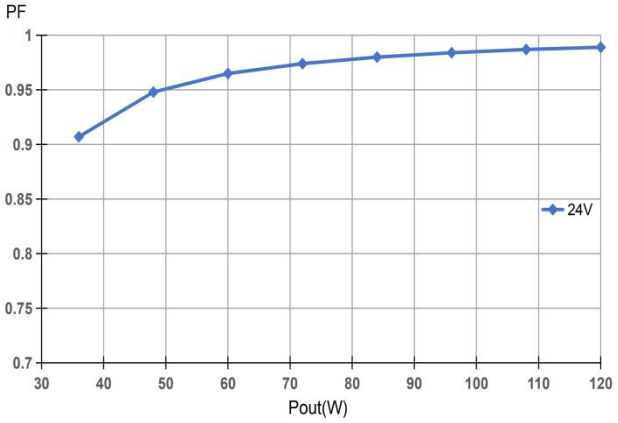


CV120W24CG-4

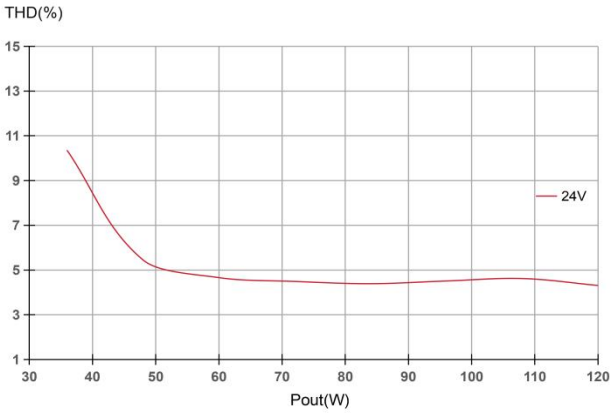
Lifetime vs. Case Temperature



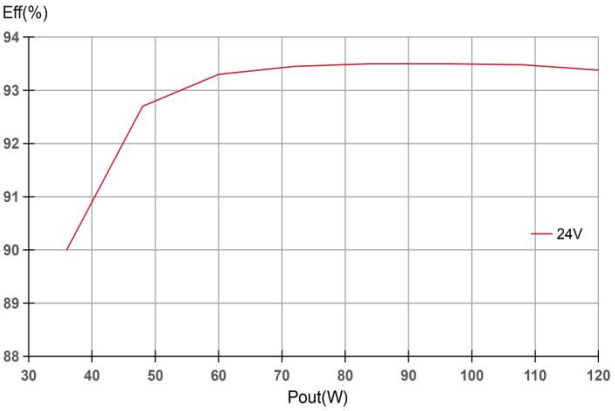
PF vs.Load



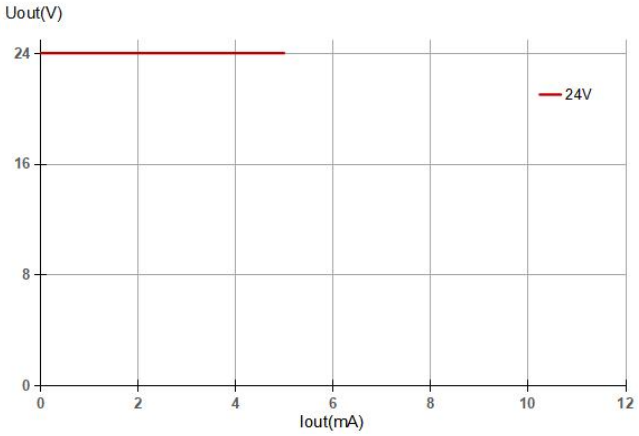
THD vs.Load



Efficiency vs. Load

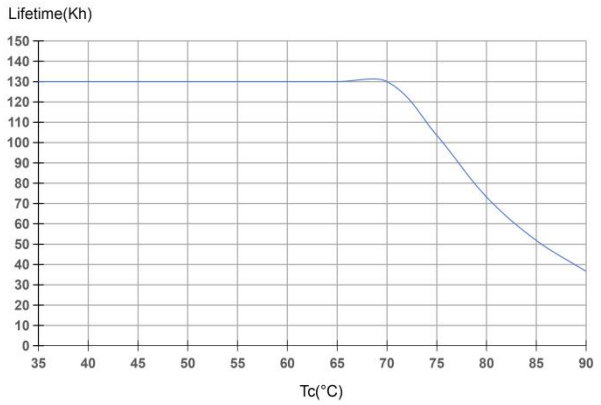


Uout vs.Iout

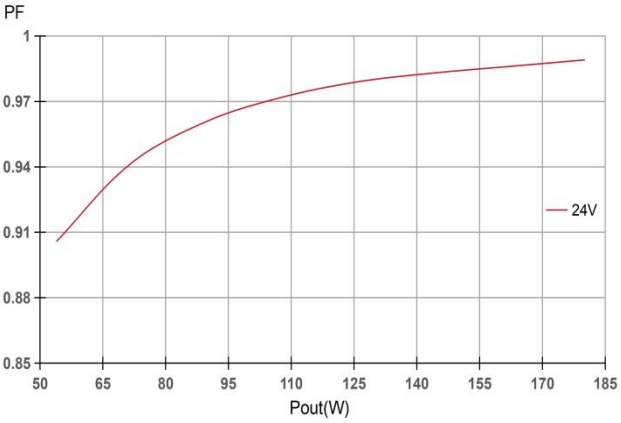


CV180W24CG-4

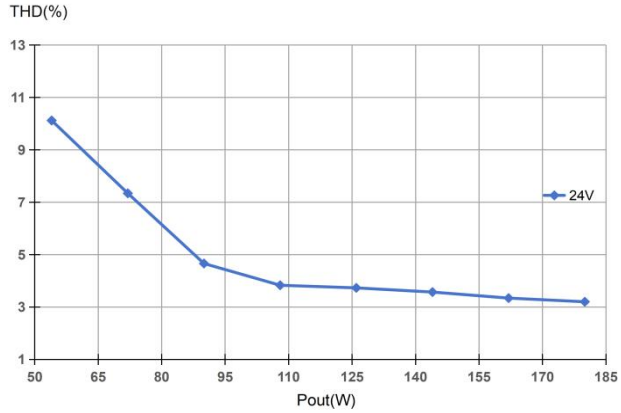
Lifetime vs. Case Temperature



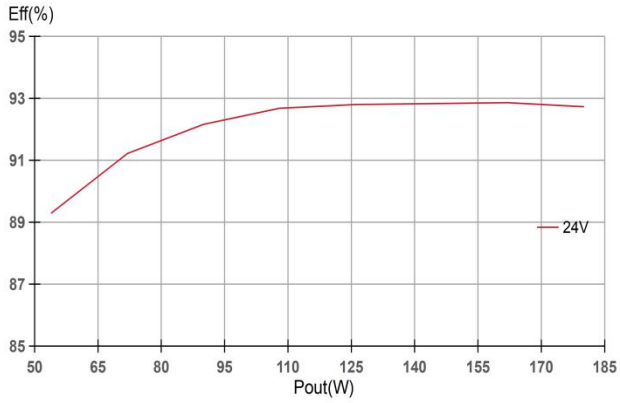
PF vs.Load



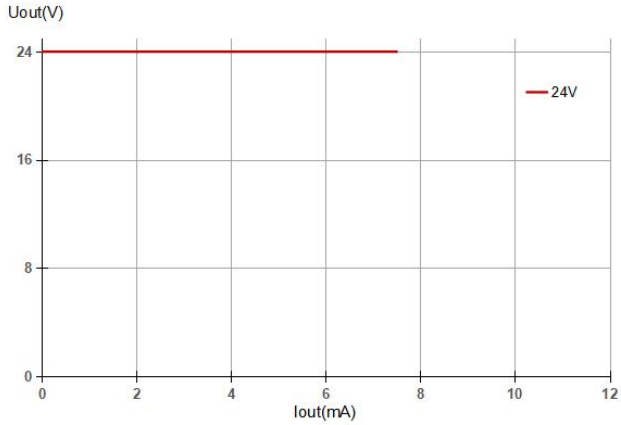
THD vs.Load



Efficiency vs. Load

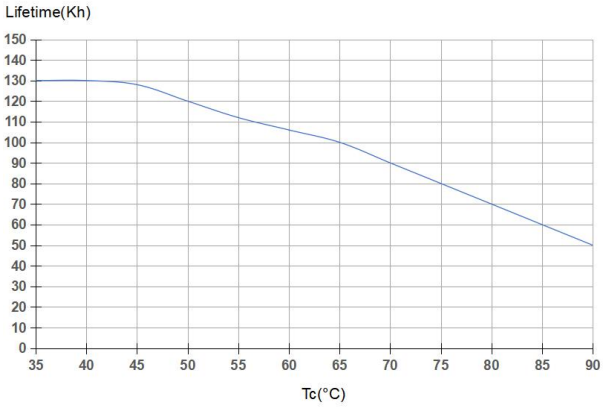


Uout vs.Iout

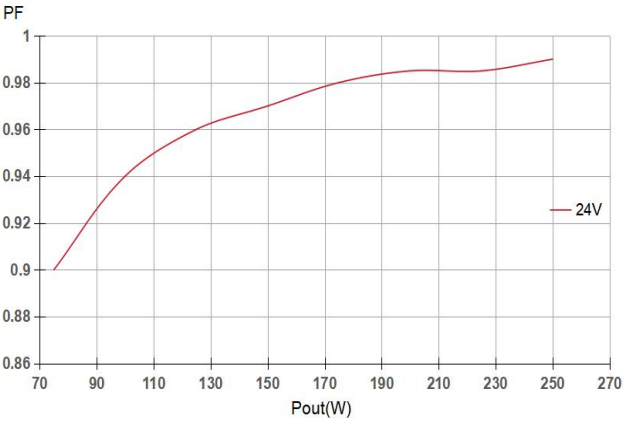


CV250W24CG

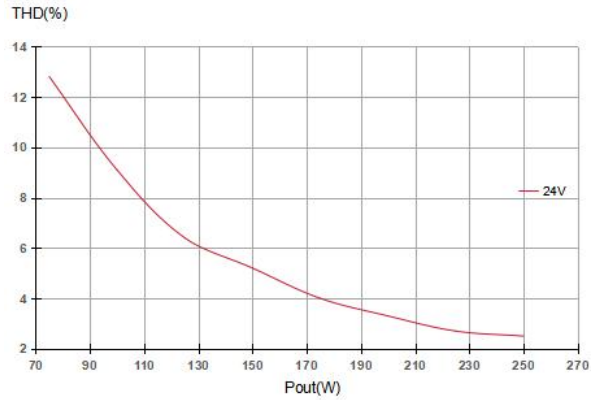
Lifetime vs. Case Temperature



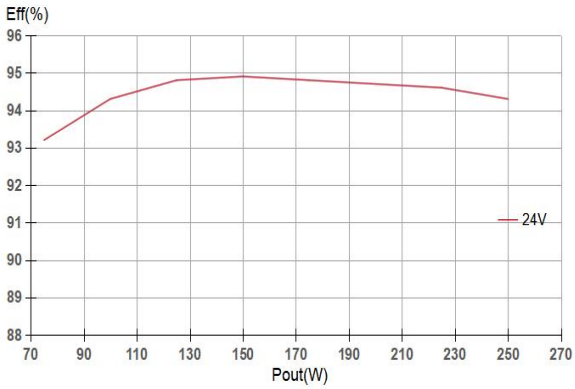
PF vs.Load



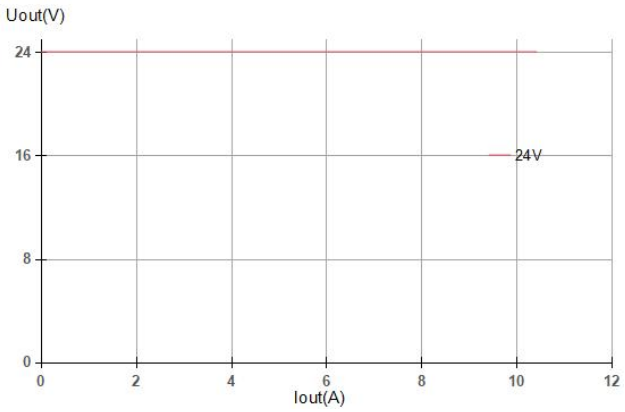
THD vs.Load



Efficiency vs. Load



U vs. I



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

Safety Features

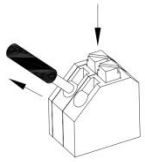
- Transient mains peaks protection:
  Values are in compliance with EN62384
  (Interference Immunity)
  Surges between L-N:up to 2kV
- Short-Circuit Protection: The control gear is protected against
- Permanent short-circuit with automatic restart function.
- Overload Protection: The control gear only 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≤0,4
- PstLM≤1
- Open Circuit Voltaje (Umax):24VDC+5%(LV***W24CG2)/48VDC+3%(LV***W48CG2)
- Efficiency: 30W:≥88%,60W:≥88%,120W:≥92%,180W:≥92%,250W:≥93%,
- Noise:≤ 24dB @Background noise ≤15dB, Interval≥20cm
- Insulation voltage: 3000V 5mA 60S between P-S
- Leakage current: I/P to O/P <0.7mA

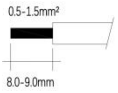
Electrical installation

- Connection terminals: Push-in terminals for rigid or flexible conductors with a section of
  Built-in:0.5mm²-2.5 mm² cable
- Stripped Length: 8-9mm
- Wiring: The mains conductor within the luminaire must be kept short
- Polarity: Please ensure the correct polarity of the leads.
  Reversed polarity can destroy the modules.
- Secondary Load: The sum of forward voltages of LED
  loads is within the tolerances which are mentioned in the Electrical Characteristics on the data sheet.
- Parallel Wiring: Parallel connection of LED loads is not allowed.

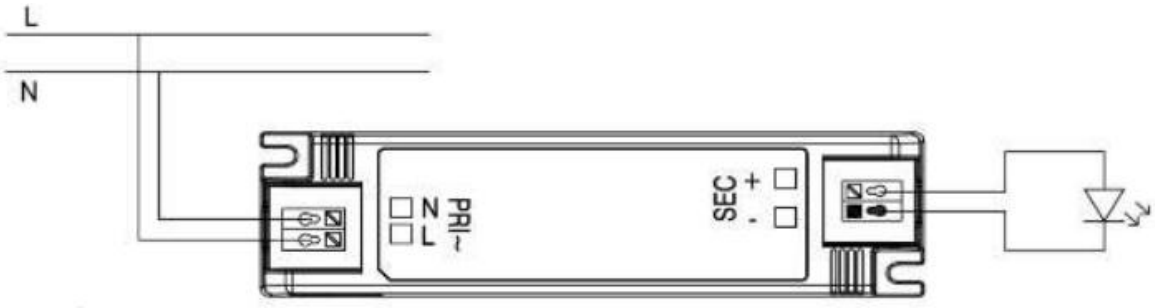
Press down the "Push Button"
and remove the cable from front.



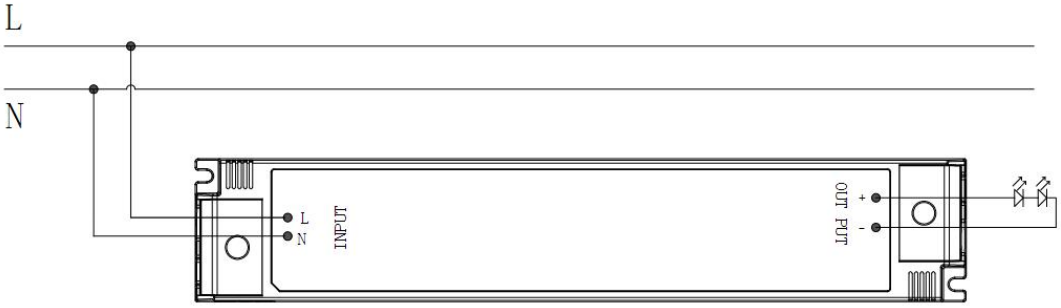
Wire Preparation



Wiring Diagram:30W/60W



Wiring Diagram:120W/180W



Wiring Diagram:250W



Number of drivers per cut-out type

Type	B10A	B13A	B16A	B20A	B25A	C10A	C13A	C16A	C20A	C25A	D10A	D13A	D16A	D20A	D25A
CV30W24CG-4	20	26	32	40	50	32	42	51	64	80	51	67	82	102	128
CV60W24CG-4	13	17	21	27	33	21	28	34	43	53	34	44	55	68	85
CV120W24CG-4	12	16	19	24	30	19	25	31	38	48	31	40	49	61	77
CV180W24CG-4	12	16	19	24	30	19	25	31	38	48	31	40	49	61	77
CV250W24CG	9	12	14	18	22	14	19	23	29	36	23	30	37	46	57

Packaging unit

Model	Packaging Carton	Packaging Pallet	CartonL*W*H (mm)	Net weight/ Pcs (g)	Net weight/ Carton (kg)	Gross weight/Carton (kg)
CV30W24CG-4	80	36	457*250*220	86	6.88	7.15
CV60W24CG-4	50	42	420*280*180	194	9.7	10.07
CV120W24CG-4	35	36	420*280*210	332	11.62	12.36
CV180W24CG-4	35	36	420*280*210	432	15.12	16.36
CV250W24CG	24	40	440*300*155	592	14.2	14.7

Revision history

DATE	REV	REMARK
2026.1.31	V1.0	Initial release
2026.5.26	V1.1	Modify ripple