



CV(120-180)W24CG-NX

Constant Voltage Driver

Model: CV(120-180)W24CG-NX



Model	Item Code	Input current	Input power	Output power range	PF	Efficiency	Output voltage	Output current	No load voltage
CV120W24CG-NX	158440	≤0.65A	≤137.00W	6.00-120.00W	≥0.95	93%	24V	0.25-5.00A	24-25V
CV180W24CG-NX	158450	≤0.89A	≤196.00W	6.00-180.00W	≥0.95	93%	24V	0.25-7.50A	24-25V

*** Test result @230V, 50Hz, Full 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(It can meet the requirements of Class I lamps)					
Input	Rated Input Voltage	220-240VAC					
	Range of Input Voltage	198-264VAC					
	Frequency	Rate:50/60Hz, Range:47~63Hz					
	Power Factor	≥0.95, 220-240VAC, Rated Load, see graphs					
	THD	≤10%@230VAC, Rated Load, see graphs					
	Standby Power Consumption	≤0.5W, @230VAC,NO Load					
	Inrush Current	Model	Ipeak	Ipeak (typ.)	Duration time	240Vac/50Hz, 90-degree phase, full load, cold start-up, duration time measure from 50%Ipk to 50%Ipk	
		120W	<55A	50A	272us		
		180W	<60A	55A	680us		
	Connected quantity of 16A Breaker	120W	10pcs,16A type B / 17pcs 16A type C				
180W		8pcs,16A type B / 13pcs 16A type C					
Output	Output Voltage	23.3-24.7VDC					
	No load Voltage	24-25VDC					
	Output Voltage Ripple	±5%					
	Line Regulation	±5%					
	Load Regulation	±5%					
	filcker Start-up Time	SVM ≤0.4, PstLM ≤1.0 ≤0.5S (220-240VAC)					

	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 voltage drop to 10%
		120W	35	254	
		180W	46	296	
	Efficiency	120W	≥92%	93% typ.	230VAC, Rated Load, at output terminals, see graphs
		180W	≥92%	93% typ.	
Protection	Short Circuit Protection	Auto Recovery			
	Over Current Protection	Auto Recovery			
	Over Voltage Protection	Auto Recovery			
	Insulation voltage	I/P to O/P,3KVac/5mA/1min			
	Insulation resistance	>100M ohm @ 500VDC			
	Leakage current	I/P to O/P < 250μA			
Environment	Ta/Operation Temperature	-20...+50℃			
	Ts/Storage Temperature	-40...+85℃			
	Tc/Enclosure Temperature	90℃（for 180W） 85℃（for 120W）			
	Humidity	5%.... 85%RH			
	Atmosphere	86-108KPa			
Construction	Connection Method	Push-in Terminal			
	Cable Terminals	PRI		1 terminal block	
		SEC		3 terminals block	
	Installation	Independent			
	PRI Wire preparation	0.75mm²-1.5 mm²			
	SEC Wire preparation	3*0.75mm²-1.5 mm²			
	SEC Cable Length	Max. 3M			
	Cable diameters range	PRI		1.5-3mm	
		SEC		1.5-3mm	
Dimension	253*42.5*31mm (L*W*H)				
Standards	Certification	CE,ENEC, UKCA			
	Safety Standards	EN61347-2-13:2014/A1:2017,EN62384:2006/A1:2009, EN61347-1:2015,AS61347.2.13:2018, AS/NZS 61347.1:2016 Inc A1			
	EMC Standards	EN IEC 55015:2019,EN IEC 55015:2019/A11:2019 EN IEC 61000-3-2:2019,EN61547:2009, EN 61000-3-3:2013/A1:20199			
	Performance	EN62384			
	Surge	L-N/2KV			
Others	RoHS	Complied to 2011/65/EU			
	Audible Noise	<25dB @ 10cm distance, 20dB background			
	Life Time	50000h Ta /Tc			
	Warranty	5years			

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. 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	CV120W24CG-1 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	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		12	16	19	24	30	@230VAC	50	272μs
TYPE C		19	25	31	38	48			
TYPE D		31	40	49	61	77			

TYPE	CV180W24CG-1 Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	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		11	14	17	22	27	@230VAC	55	680μs
TYPE C		17	23	28	35	44			
TYPE D		28	36	45	56	70			

3. Label

☐ N
☐ L
PR1

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Driver
CV120W24CG-NX
158440
Constant Voltage Type for LED only

U_N=220-240VAC
I_N=0.65A Max
f_N=50/60Hz
PF≥0.95

V_{out}=24VDC const
I_{out}=5000mA Max
P_{out}=120W Max
t_a=-25...50°C t_c=85°C

• t_c

SEC +
SEC -

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

☐ N
☐ L
PR1

NEXIVO
by KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Driver
CV180W24CG-NX
158450
Constant Voltage Type for LED only

U_N=220-240VAC
I_N=0.89A Max
f_N=50/60Hz
PF≥0.95

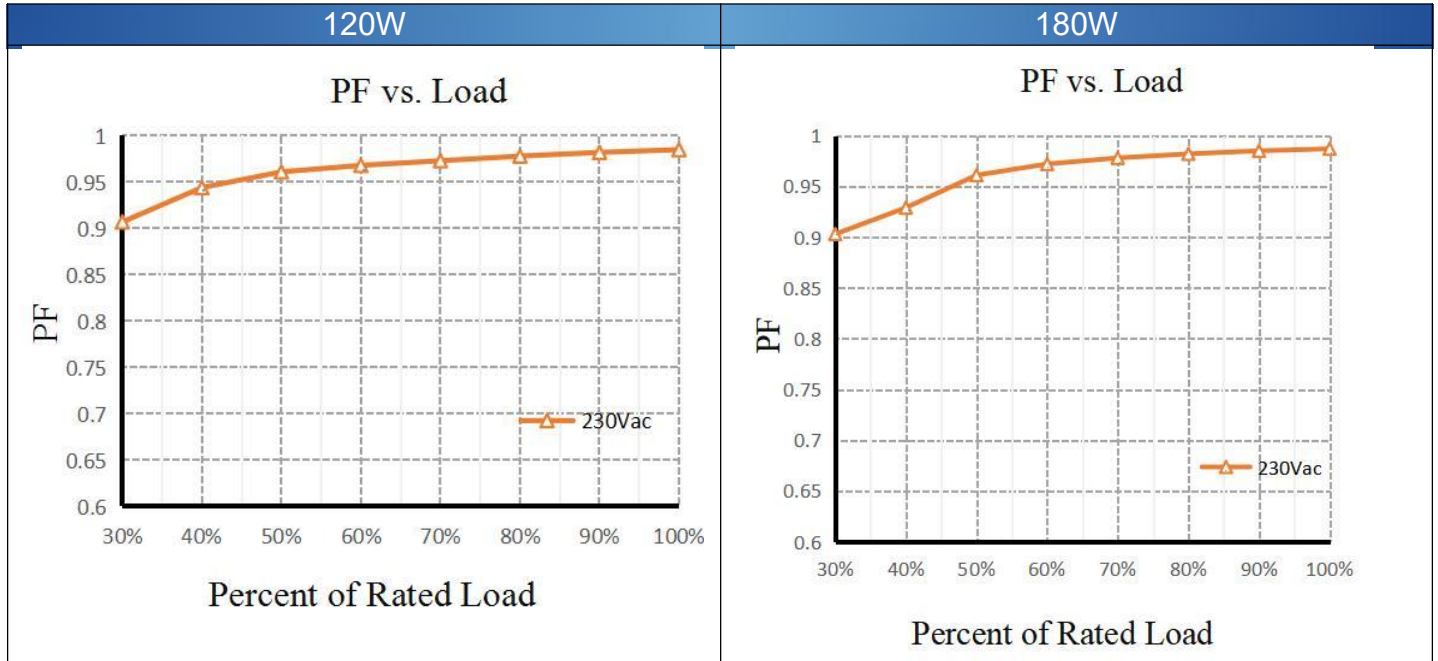
V_{out}=24VDC const
I_{out}=7500mA Max
P_{out}=180W Max
t_a=-25...50°C t_c=90°C

• t_c

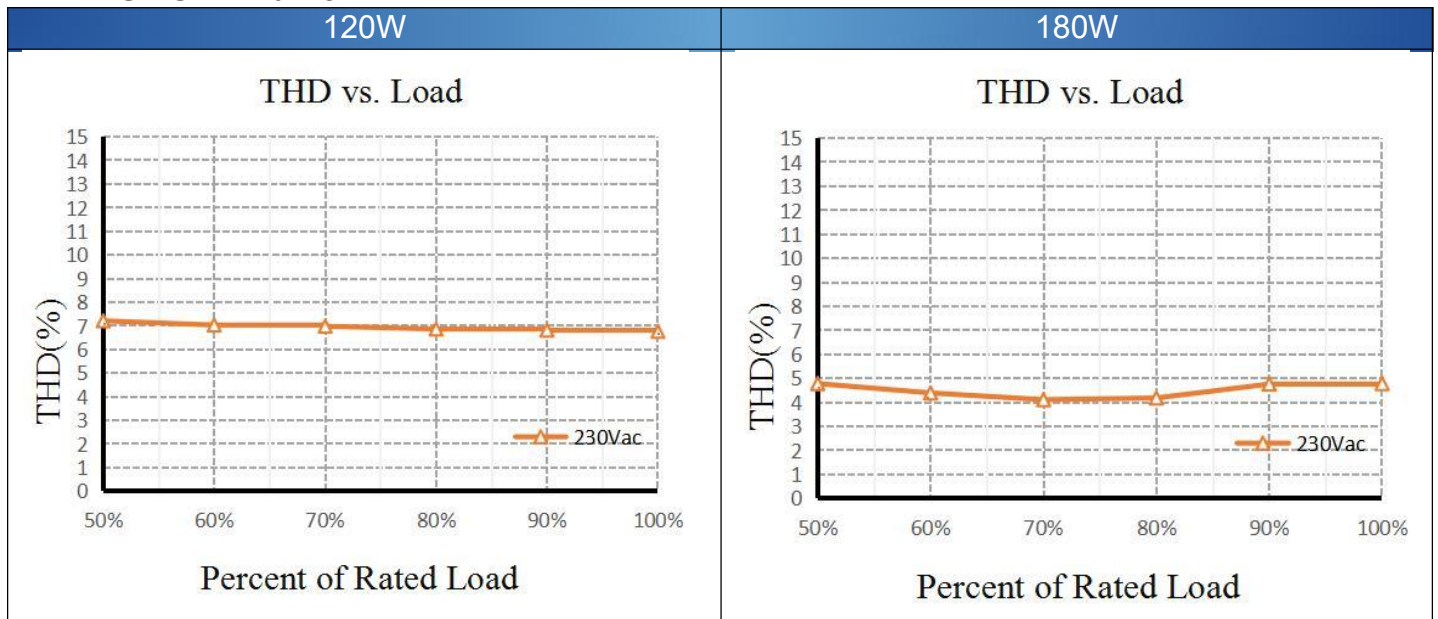
SEC +
SEC -

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

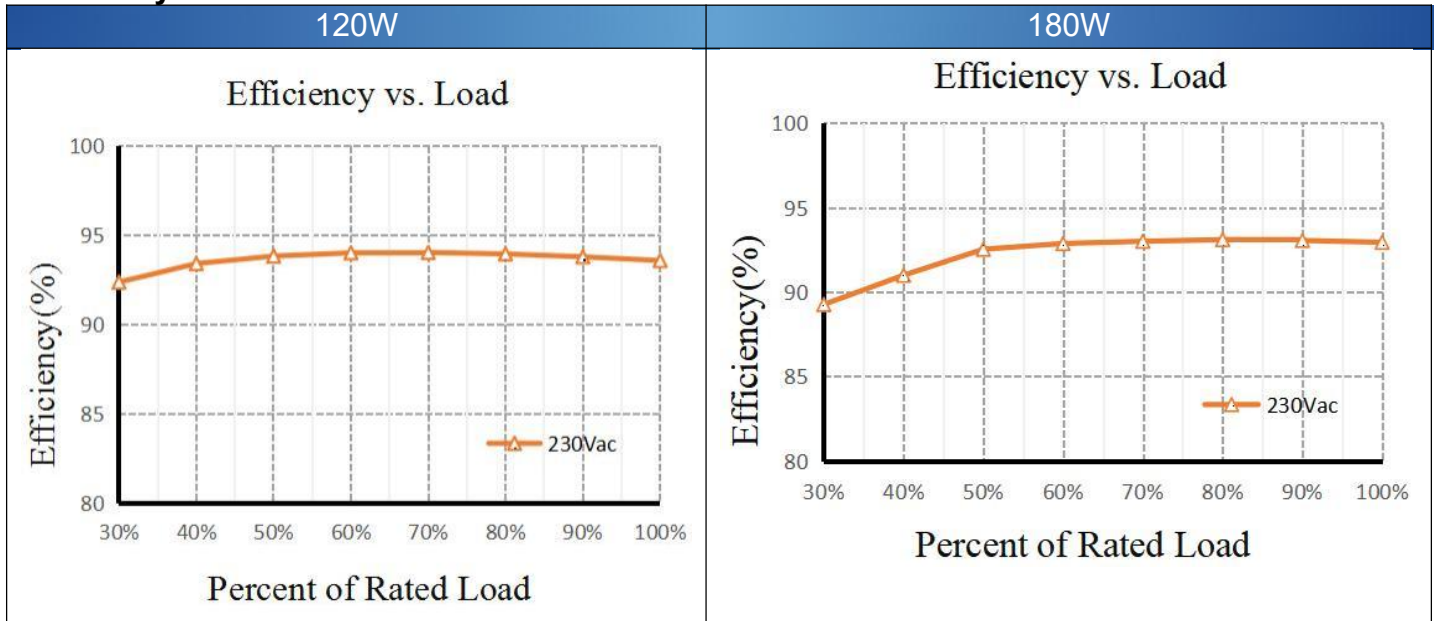
4. Graph PF VS LOAD Curve



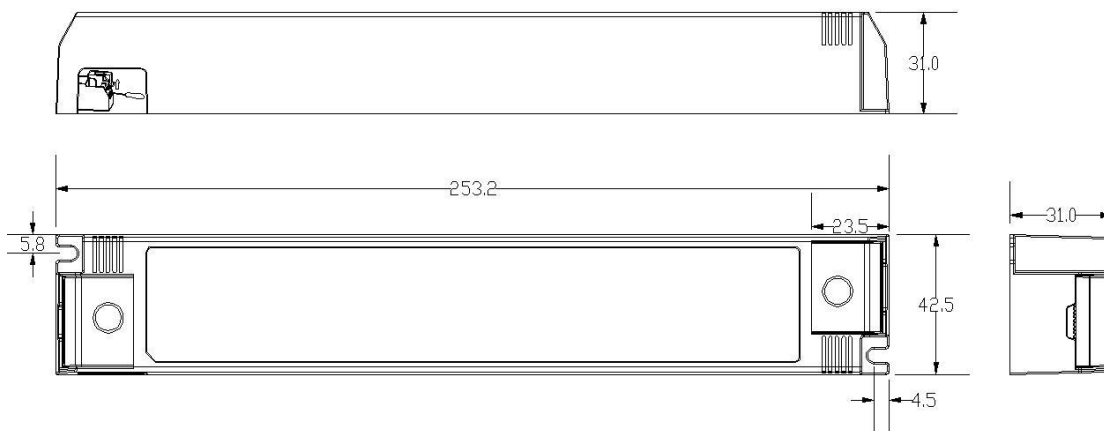
THD VS LOAD Curve



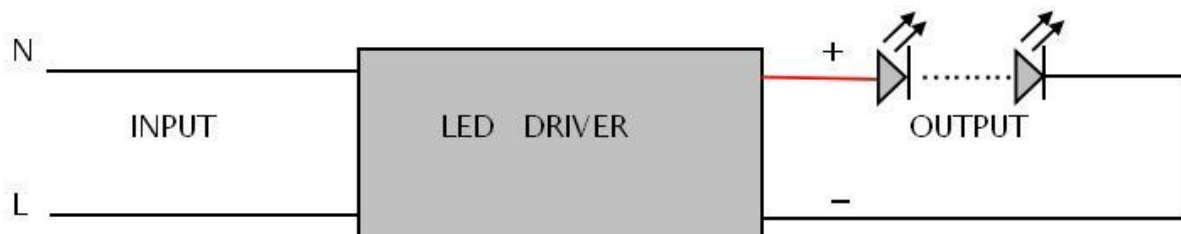
Efficiency VS LOAD Curve



5. Dimension



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	CV120W24CG-NX	365*272*155	30	0.455	13.65	14.95
	CV180W24CG-NX					

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.)

9. Ordering data

Model No	Item code
CV120W24CG-NX	158440
CV180W24CG-NX	158450

10. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.01.08	V0.02	Modify Packing information