



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage	Cementing product
LV30W24CG-1-10-NX	160430	0.00-1.25A	≤0.19A	≤38.00W	0.00-30.00W	≥0.95	86%	24V	220-240 VAC	N
LV60W24CG-1-10-NX	160440	0.00-2.5A	≤0.35A	≤72.00W	0.00-60.00W		87%			Y

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

1. Parameters

Category	Item	Technical Norm								
Features	Output Type	Constant Voltage								
	Dimmable Type	3 in 1: 1-10VDC, PWM signal, Resistance								
	Output Features	Isolation SELV								
	IP Grade	IP20								
	Insulation Class	Class II								
Input	Rated Input Voltage	220-240VAC								
	Range of AC Input Voltage	176-264VAC								
	Range of DC Input Voltage	175-280VDC								
	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, Dim to OFF								
	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				
		30W	<30A	22A	310us					
		60W	<30A	26A	220us					

Output	Output Voltage	24VDC+5%			
	No load Voltage	24VDC+5%			
	Output Voltage Ripple	30W	<240mV _{PK-PK} (0.5%)		
		60W	<240mV _{PK-PK} (0.5%)		
	Line Regulation	±1%			
	Load Regulation	±2%			
	Overshoot	<105%Vo			
	Start-up Time	≤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%
		30W	30	72.3	
		60W	22.8	62.8	
Efficiency	30W	≥85%	86% typ.	230VAC, Rated Load, at output terminals, see graphs	
	60W	≥86%	87% typ.		
Protection	Short Circuit Protection	Auto Recovery			
	Over Current Protection	120%-180%Io, Auto Recovery			
	Over Voltage Protection	110%-150%Vo, 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			
Control Method	1-10V(0-10V)dimming	0-10Vdc, Port source current 0.1mA typical			
	PWM dimming	PWM Signal dimming Duty: 0- 99%,0.25KHz-2KHz, Voltage amplitude:3-10V			
	Resistance dimming	0-100/N Kohm (N=driver quantity for synchronized dimming operation)			
	Output Dimming range	Output duty:1%-100%,1.38KHz, Dim-to-off			
Environment	Ta/Operation Temperature	-25.....+45℃			
	Ts/Storage Temperature	-40.....+85℃			
	Tc/Enclosure Temperature For Safety	30W	80℃		
		60W	90℃		
	Humidity	5% 85%RH			
	Atmosphere	86-108KPa			
Construction	Connection Method	Terminal			
	Cable Terminals	Input		1 terminal block	
		Output	30W/60W	1 terminal block	
		Dimming		1terminals block	
	Installation	Independent			
	Input Wire Cross Section	0.75mm²-1.5 mm²			
	Output Wire Cross Section	30W	0.5mm²-1.5 mm²		
		60W	0.75mm²-1.5 mm²		

	Dimming Wire Cross Section	30W/60W		0.5mm²-1.5mm²
	Output Cable Length	Max. 3M		
	Cable diameters range	Input		2.2-4mm or 9.5-10.5mm
		Output & Dimming		2.2-4mm
	Dimension	30W/60W		300*30*16mm (L*W*H)
Standards	Certification	CE, ENEC, SAA		
	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/A1:2019		
	Performance	EN62384		
	Surge	L-N:2KV		
Others	RoHS	2011/65/EU		
	MTBF	≥250KHours,Ta=25℃ (MIL-HDBK-217F)		
	Audible Noise	<28dB @ 10cm distance, 20dB background		
	Life Time(@Ta max)	30W	≥80K Hrs	@230VAC , full load, End of Life: Failure Rate<10%.
		60W	≥60K Hrs	
	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	LV30W24CG-1-10-NX Connected quantities of different current Breaker						Input Voltage	Inrush Current <25A	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		27	35	44	55	68	@230VAC	22	310μs
TYPE C		44	57	70	87	109			
TYPE D		70	91	112	140	175			

TYPE	LV60W24CG-1-10-NX Connected quantities of different current Breaker						Input Voltage	Inrush Current <30A	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		23	30	37	46	58	@230VAC	26	220μs
TYPE C		37	48	59	74	92			
TYPE D		59	77	95	118	148			

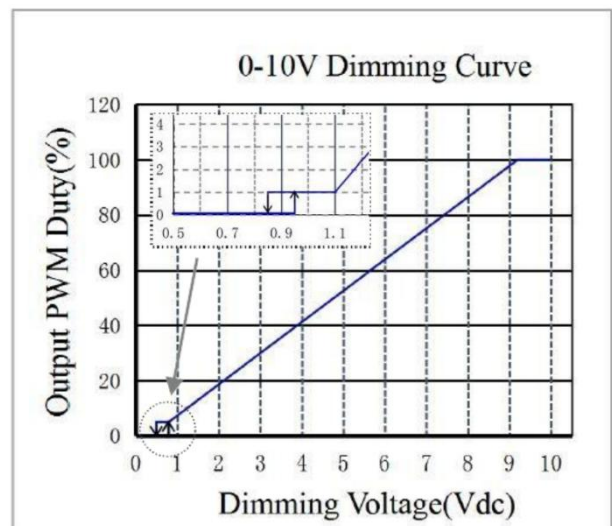
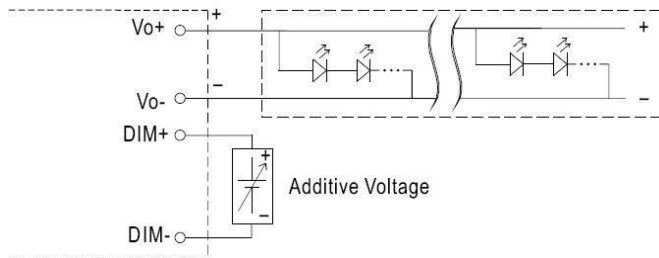
3. Label

☐ L ☐ N wire preparation (6mm) INPUT: 0.5-1.5 OUTPUT: 0.75-1.5 DIM: 0.5-1.5	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenschied	LED Dimmable Driver LV30W24CG-1-10-NX 160430 Constant Voltage Type For LED modules only	INPUT: 220-240V~50/60Hz 0.19A • _{tc} OUTPUT: 24V=Max. 1250mA Rated Power: Max. 30W Power Factor(λ): ≥ 0.95 ta: -25...45°C tc: 80°C		☐ OUTPUT ☒ DIM
☐ L ☐ N wire preparation (6mm) INPUT: 0.5-1.5 OUTPUT: 0.75-1.5 DIM: 0.5-1.5	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenschied	LED Dimmable Driver LV60W24CG-1-10-NX 160440 Constant Voltage Type For LED modules only	INPUT: 220-240V~50/60Hz 0.19A • _{tc} OUTPUT: 24V=Max. 2500mA Rated Power: Max. 60W Power Factor(λ): ≥ 0.95 ta: -25...45°C tc: 90°C		☐ OUTPUT ☒ DIM

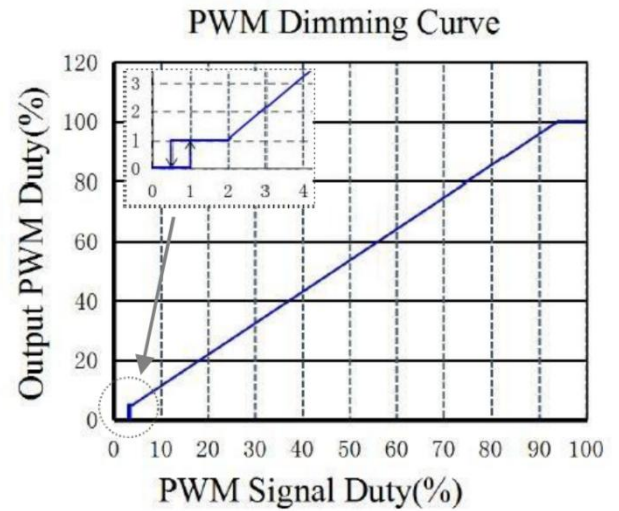
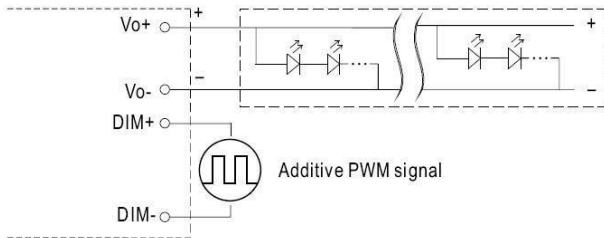
4. 3 in 1 Dimming Function

Output power can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0-10VDC, or PWM signal or resistance.

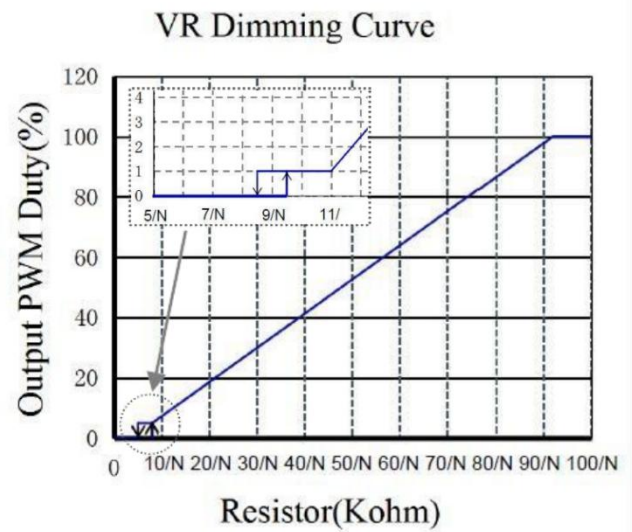
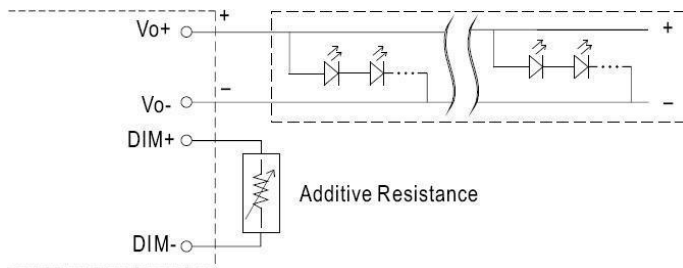
Applying additive 0 ~ 10VDC



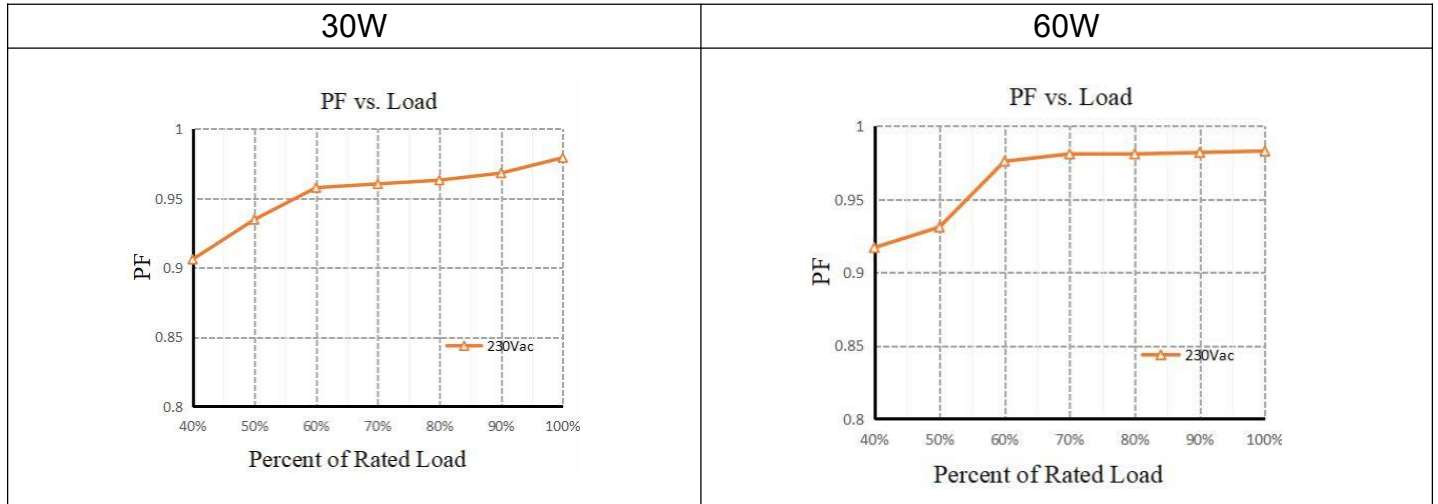
Applying additive PWM signal (Duty: 0- 99%,frequency range 0.25KHz ~ 2KHz,Voltage amplitude:3-10V)



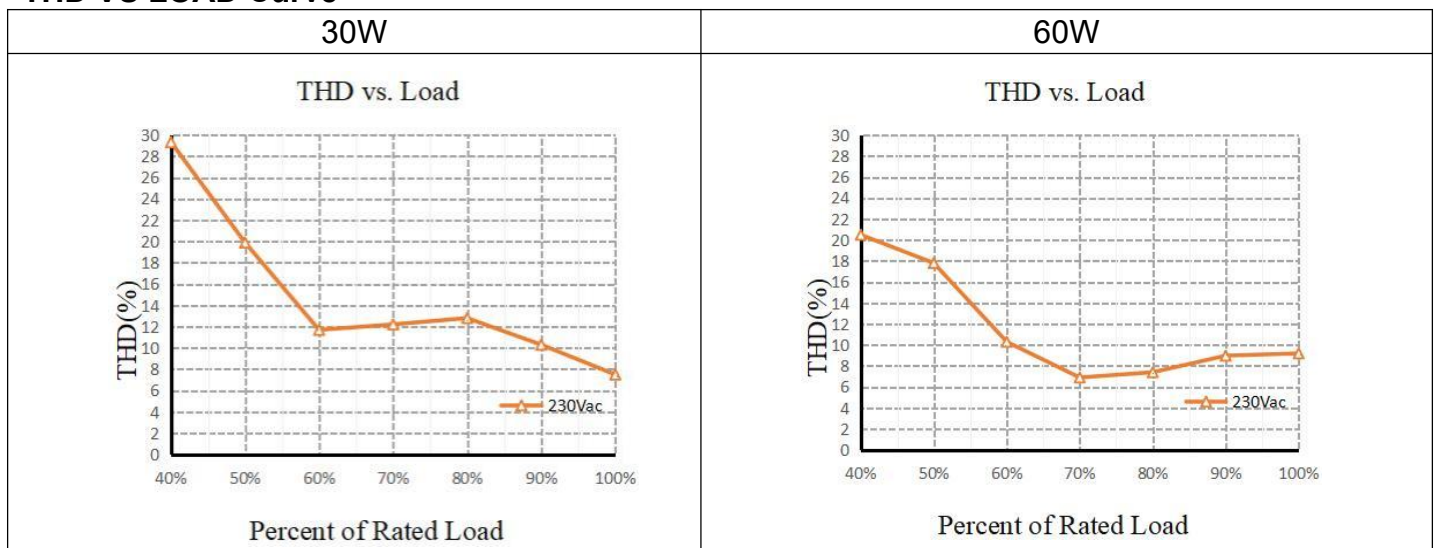
Applying additive resistance



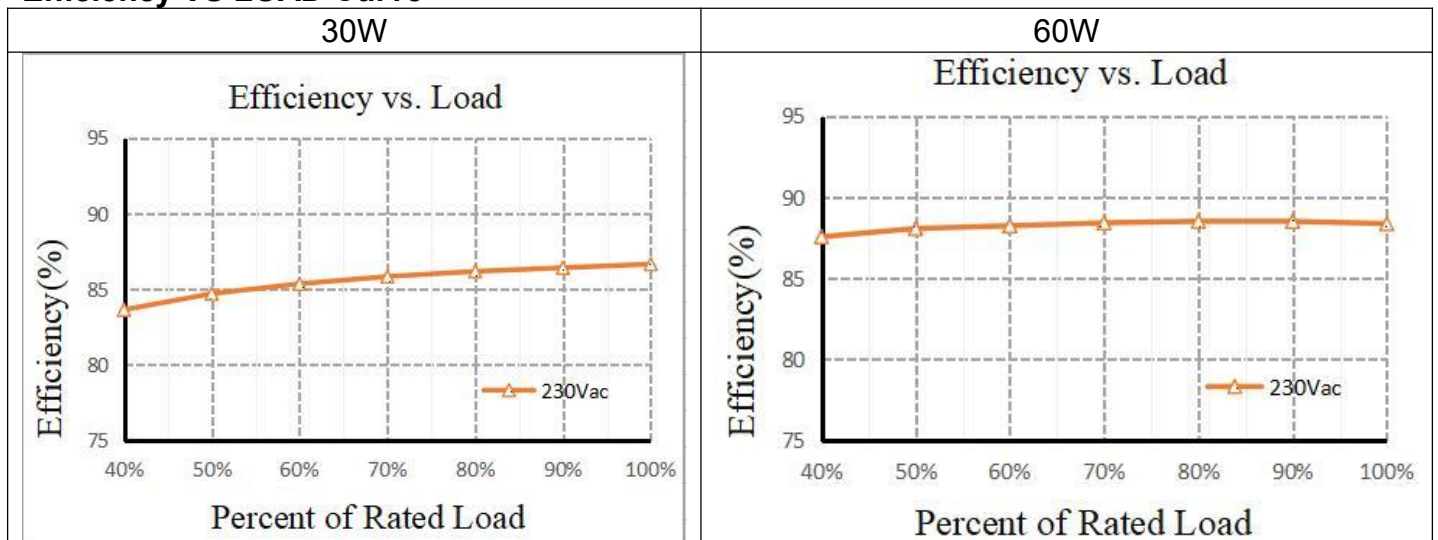
5. Graph PF VS LOAD Curve



THD VS LOAD Curve

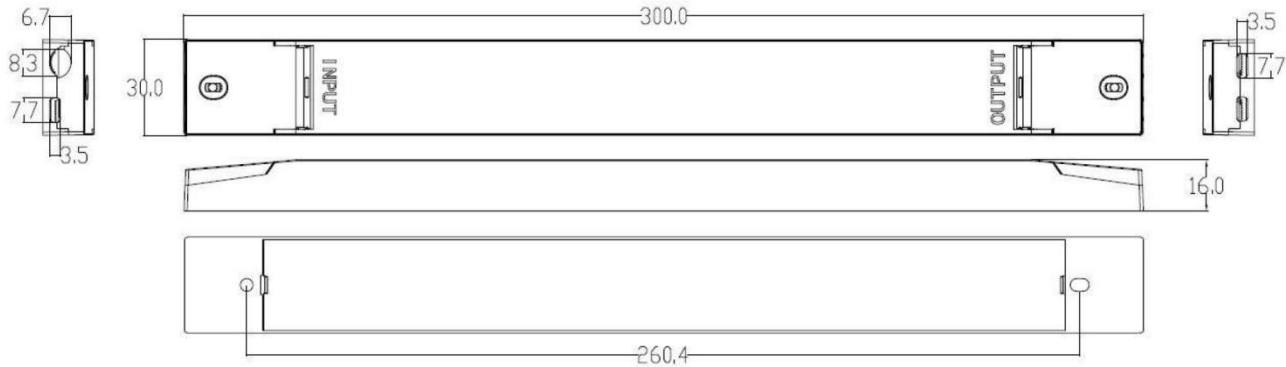


Efficiency VS LOAD Curve



6. Dimension (Unit: mm)

LV30W24CG-1-10-NX&LV60W24CG-1-10-NX:



7. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/C arton	Net eight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight /Carton(kg)
With white box and manual	LV30W24CG-1-10-NX	320*230*195	50	0.143	7.15	7.68
	LV60W24CG-1-10-NX			0.230	11.5	12.03
Without white box and manual	LV30W24CG-1-10-NX	440*345*155	60	0.125	7.50	8.12
	LV60W24CG-1-10-NX			0.210	12.60	13.24

8. Ordering data

Model No	Item code
LV30W24CG-1-10-NX	160430
LV60W24CG-1-10-NX	160440

9. 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.)

10. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release