



LV(100-250)W48CG-NX

Constant Current Driver

Model: LV(100-250)W48CG-NX



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
LV100W48CG-NX	158640	0.00-2.10A	≤0.60A	≤115.00W	0.00-100.80W	≥0.95	92%	48V	220-240 VAC
LV150W48CG-NX	158650	0.00-3.13A	≤0.90A	≤168.00W	0.00-150.00W		92%		
LV250W48CG-NX	158660	0.00-5.21A	≤1.50A	≤275.00W	0.00-250.00W		93%		

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

* Recommended minimum power is 10% 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	176-264VAC
	Range of DC Input Voltage	175-280VDC(EMI not evaluated)
	Frequency	Rate:50/60Hz,Range:47~63Hz
	Power Factor	≥0.95, 220-240VAC, Rated Load, see graphs
	THD	≤7% 230VAC, Rated Load, see graphs
	Standby Power Consumption	≤0.5W, @230VAC,Dim to OFF
Output	Output Voltage	48VDC+2%
	No load Voltage	48VDC+3%
	Output Voltage Ripple	<480mV _{PK-PK} (0.5%)
	Line Regulation	±1%
	Load Regulation	±2%
	Flicker	SVM ≤0.4, PstLM ≤1.0
	Overshoot	<105%Vo
	Start-up Time	≤0.5S (220-240VAC)

	Efficiency	100W	≥90%	92% typ.	230VAC, Rated Load, at output terminals, see graphs
		150W	≥90%	92% typ.	
		250W	≥91%	93% typ.	
Protection	Short Circuit Protection	Auto Recovery			
	Over Current Protection	120%-180%Io, Auto Recovery			
	Over Voltage Protection	110%-150%Vo, Auto Recovery			
	Over Temperature Protection	90<Tc<110℃, 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	-25....+45℃			
	Ts/Storage Temperature	-40....+85℃			
	Tc/Enclosure Temperature For Safety	90℃			
	Humidity	5% 85%RH			
	Atmosphere	86-108KPa			
Construction	Connection Method	Terminal			
	Cable Terminals	Input		1 terminal block (300V/10A)	
		Output	100W/ 150W	1 terminal block (300V/10A)	
			250W	2 terminals block(300V/10A)	
	Installation	Independent			
	Input Wire Cross Section	0.75mm²-1.5 mm²			
	Output Wire Cross Section	100W/150W		1*0.75mm²-1.5 mm²	
		250W		2*0.75mm²-1.5 mm²	
	Cable stripping lengths	6mm			
	Output Cable Length	Max. 3M			
	Cable diameters range	Input		2.2-4mm or 9.5-10.5mm	
		Output & Dimming		2.2-4mm	
	Dimension	100W/150W		350*30*18mm (L*W*H)	
		250W		400*40*22mm (L*W*H)	
Standards	Certification	CE, ENEC, SAA			
	Safety Standards	EN61347-2-13:2014/A1:2017,EN 61347-1:2015/A1:2021, EN IEC 62384:2020,EN61347-1:2015, EN62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 IncA1			
	EMC Standards	EN IEC 55015:2019,EN IEC 55015:2019/A11:2020, EN IEC 61000-3-2:2019/A1:2021,EN61547:2009, EN 61000-3-3:2013/A2:2021			
	Performance	EN62384			
	Surge	L-N:2KV			

Others	RoHS	2011/65/EU		
	MTBF	≥250KHours,Ta=25℃(MIL-HDBK-217F)		
	Life Time(@Ta max)	100W	≥100K Hrs	@230VAC , full load, End of Life: Failure Rate<10%.
		150W	≥55K Hrs	
		250W	≥63K Hrs	
	Warranty	5years		
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.Terminal wiring must be operated with a suitable screwdriver.After installation, check to make sure that the terminals cannot be pressed against the wire sheath
- 3.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
- 4.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 to20MHz.

2. Connected quantities of different current Breaker

TYPE	LV100W48CG-NX Connected quantities of different current Breaker						Input Voltage	Inrush Current <50A	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		13	17	21	27	33	@230VAC	45	250us
TYPE C		21	28	34	43	53			
TYPE D		34	44	55	68	85			

TYPE	LV150W48CG-NX Connected quantities of different current Breaker						Input Voltage	Inrush Current <60A	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	21	27	@230VAC	56	185us
TYPE C		17	22	27	34	43			
TYPE D		27	36	44	55	69			

TYPE	LV250W48CG-NX Connected quantities of different current Breaker						Input Voltage	Inrush Current <80A	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		8	10	13	16	20	@230VAC	76	310us
TYPE C		13	16	20	25	32			
TYPE D		20	26	32	40	51			

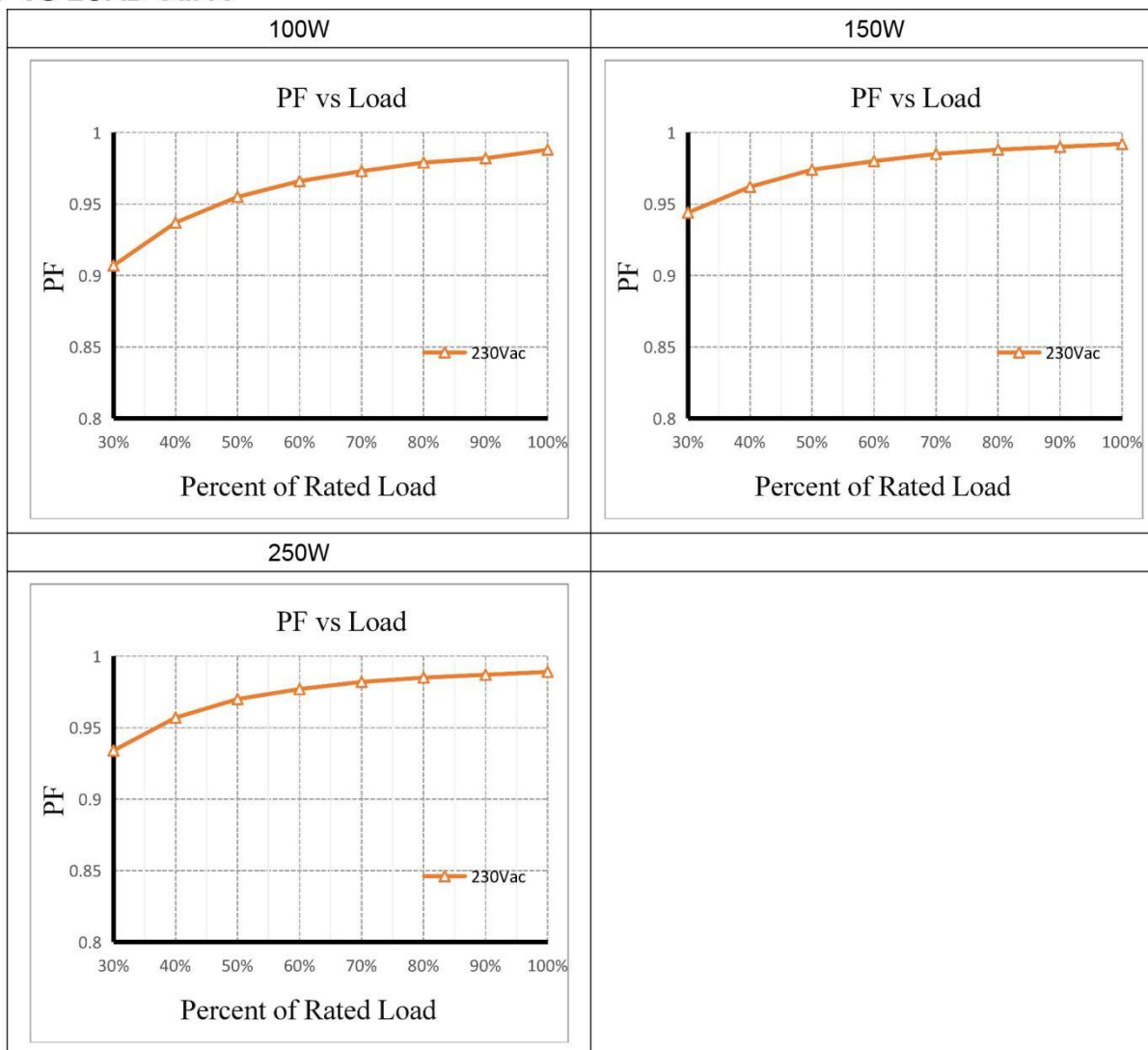
3. Label

☐ L ☐ N wire preparation (6mm) INPUT:0.75-1.5 ⁰ OUTPUT:0.75-1.5 ⁰	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	LED Driver LV100W48CG-NX 158640 Constant Voltage Type For LED modules only	Input Voltage:220-240V~ Input Frequency:50/60Hz Power Factor(λ): ≥ 0.95 $I_{in} \leq 0.6A$	$U_{rated}=48V \approx$ $I_{range}=0-2100mA$ $P_{range}=0-100.8W$ $ta:-25to+45^{\circ}C$ $tc:90^{\circ}C$	• tc 	☐ INPUT ☐ OUTPUT
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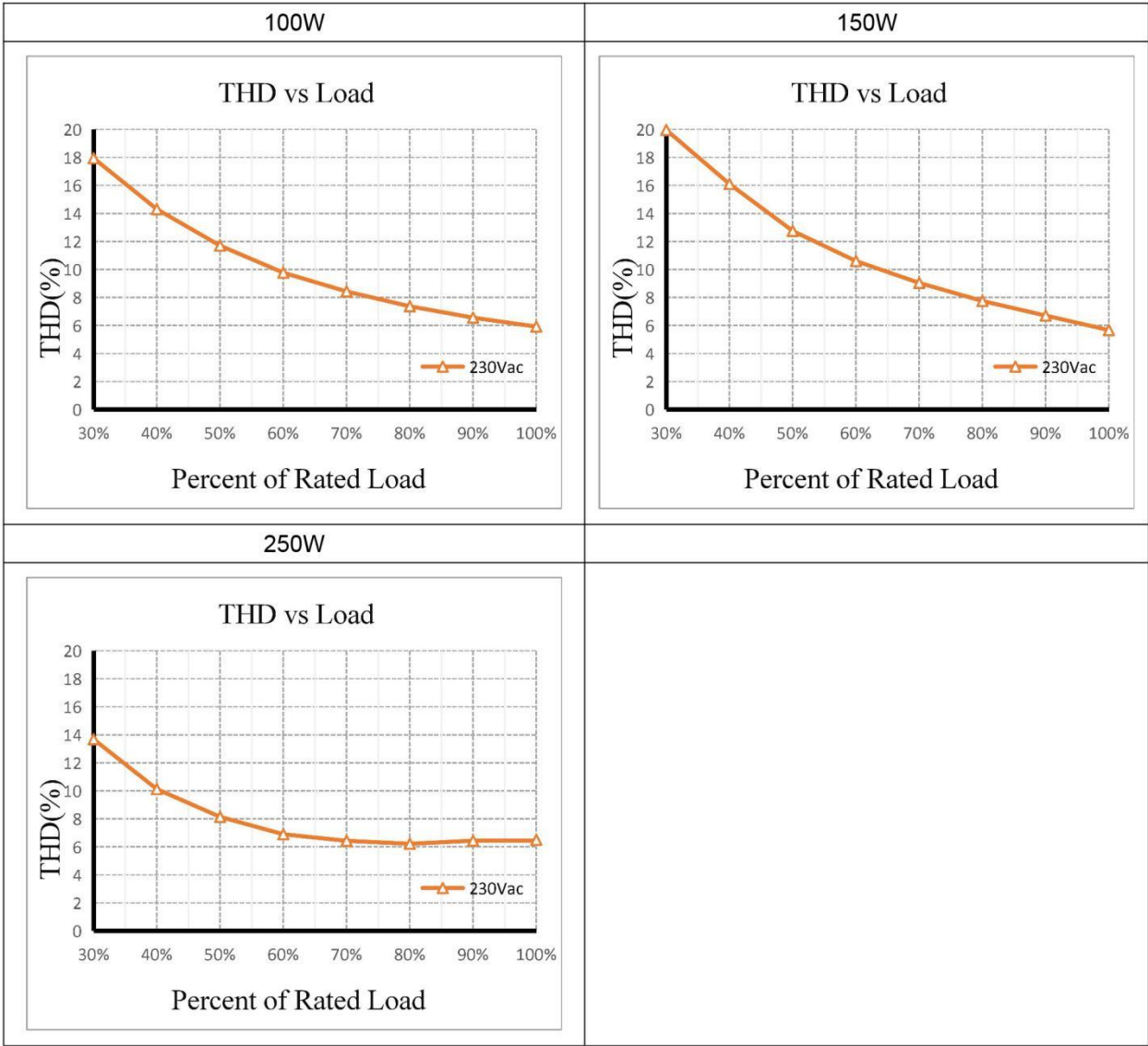
☐ L ☐ N wire preparation (6mm) INPUT:0.75-1.5 ⁰ OUTPUT:0.75-1.5 ⁰	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	LED Driver LV150W48CG-NX 158650 Constant Voltage Type For LED modules only	Input Voltage:220-240V~ Input Frequency:50/60Hz Power Factor(λ): ≥ 0.95 $I_{in} \leq 0.9A$	$U_{rated}=48V \approx$ $I_{range}=0-3125mA$ $P_{range}=0-150W$ $ta:-25to+45^{\circ}C$ $tc:90^{\circ}C$	• tc 	☐ INPUT ☐ OUTPUT
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☐ L ☐ N wire preparation (6mm) INPUT:0.75-1.5 ⁰ OUTPUT:0.75-1.5 ⁰	NEXIVO by KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid	LED Driver LV250W48CG-NX 158660 Constant Voltage Type For LED modules only	Input Voltage :220-240V~ Input Frequency:50/60Hz Power Factor(λ): ≥ 0.95 $I_{in} \leq 1.5A$	$U_{rated}=48V \approx$ $I_{range}=0-5210mA$ $P_{range}=0-250W$ $ta:-25to+45^{\circ}C$ $tc:90^{\circ}C$	• tc 	LED- ☐ LED+ ☐ OUTPUT ☐
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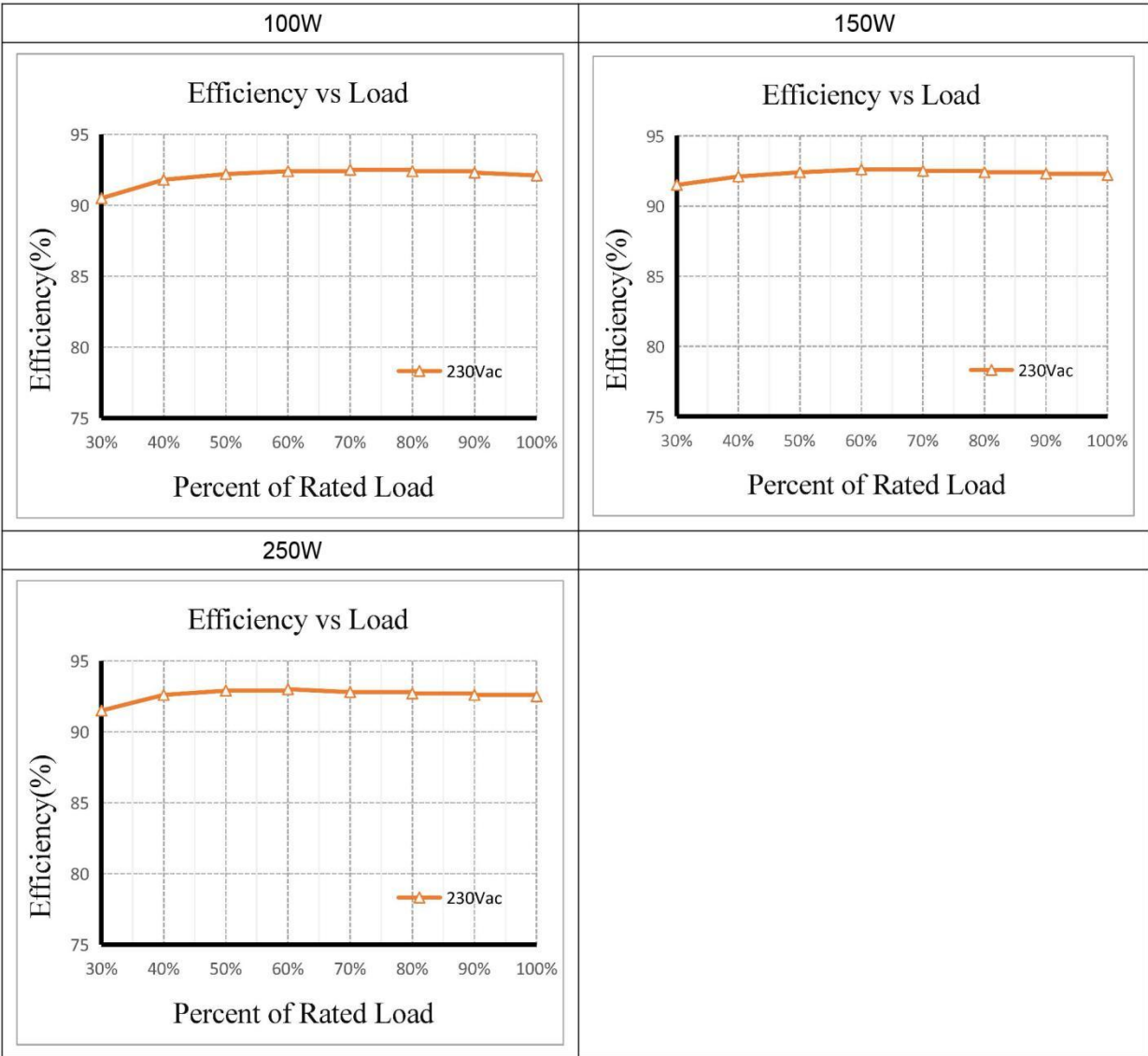
4. Graph PF VS LOAD Curve



THD VS LOAD Curve

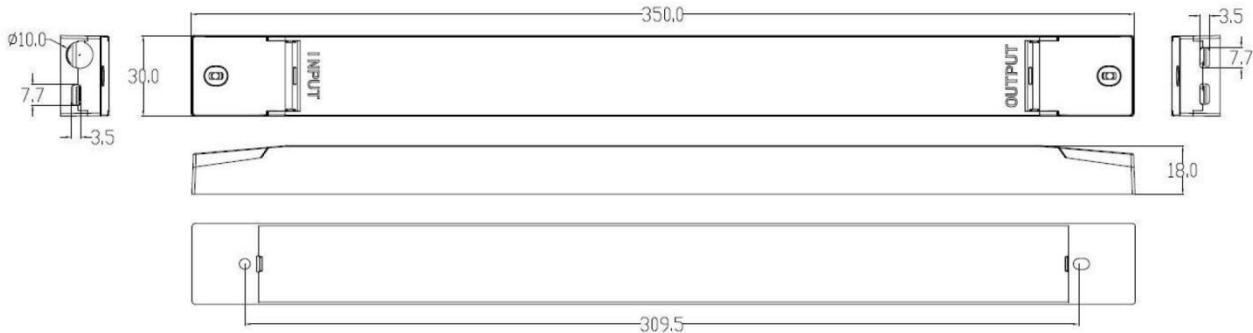


Efficiency VS LOAD Curve

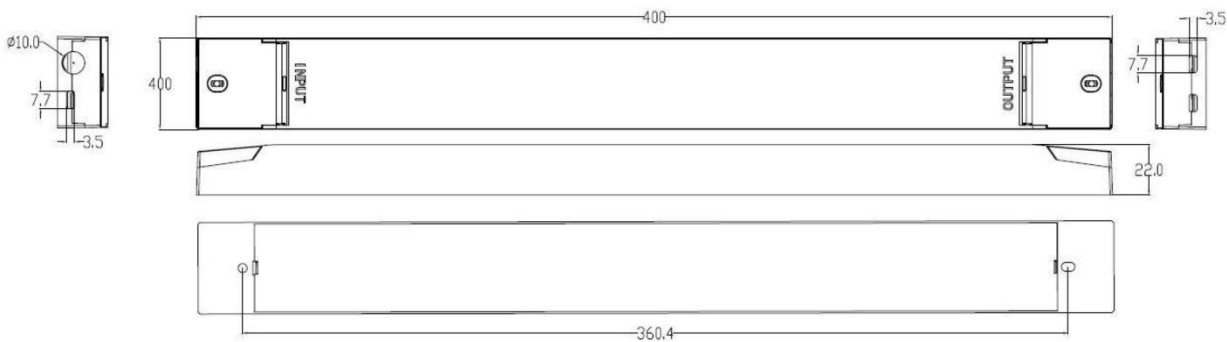


5. Dimension (Unit: mm)

LV100W48CG-NX&LV150W48CG-NXI:



LV250W48CG-NX:



6. Packing informatio

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net eight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight /Carton(kg)
With white box and manual	LV100W48CG-NX	375*235*195	50	0.21	10.5	11.03
	LV150W48CG-NX			0.309	15.45	16.02
	LV250W48CG-NX	420*230*160	25	0.535	13.375	13.82
Without white box and manual	LV100W48CG-NX	440*345*155	40	0.184	7.36	7.89
	LV150W48CG-NX			0.281	11.24	11.75
	LV250W48CG-NX	440*300*155	25	0.502	12.55	13.0

7. Ordering data

Model No	Item code
LV100W48CG-NX	158640
LV150W48CG-NX	158650
LV250W48CG-NX	158660

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. Revision history

Date	Revision	Remark
2026.16.03	V0.01	Product release