



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage
CV160W48CG-1CH-IOT-NX	157380	0-3333mA	≤0.82A	179.80W	0-160W	≥0.98	89%	48V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	Bluetooth
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.82A max
	Input Power	≤179.80W max
	Power Factor	≥0.98 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W (230VAC, full load)
	Inrush Current	≤9.5A/16us (230VAC, full load)
	Connected quantity of 10A Breaker	21pcs/type A ; 33pcs/type B ; 53pcs/type C
	Connected quantity of 13A Breaker	26pcs/type A ; 42pcs/type B ; 68pcs/type C
	Connected quantity of 16A Breaker	33pcs/type A ; 53pcs/type B ; 84pcs/type C
	Connected quantity of 20A Breaker	41pcs/type A ; 66pcs/type B ; 105pcs/type C

Output	Output Voltage	48VDC+5%	
	No Load Voltage	48VDC+5%	
	Line Regulation	±1%	
	Load Regulation	±2%	
	Overshoot	<105%Vo	
	Output Voltage Ripple	<240mV _{PK-PK} (0.5%)	
	Start-up Time	Start-up time <0.5s @ power switch on without DALI control. Start-up time <1s @ DALI system on.	
	Hold-up time(mS)	9.2	(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 90%
	Turn-off time(mS)	69.6	
	Efficiency	≥88% typ. 89% max.	230VAC, Rated Load, at output terminals
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,3KV _{ac} /5mA/1min	
	Insulation resistance	>100M ohm @ 500VDC	
	Leakage current	I/P to O/P < 250μA	
Environment	Ta/Operation Temperature	-25....+50°C	
	Ts/Storage Temperature	-25....+85°C	
	Tc/Enclosure Temperature	85°C	
	Humidity	5%85%RH	
	Atmosphere	86-108KPa	
Construction	Connection Method	Push-in Terminal	
	Installation	Build-in & Independent	
	Output Cable Length	Max. 3M	
	Input Wire preparation	0.5-1.5□/ 8-9mm	
	Output Wire preparation	0.5-1.5□/ 8-9mm	
	SEC Wire preparation	0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters) (the length required by the standard). If there are any data differences, please test according to the length required by the standard)	
	Dimension	168*43*22.8mm(L*W*H)	
Standards	Certification	CE	
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;	
	Performance	EN62384	
	Surge	L-N:1kV	

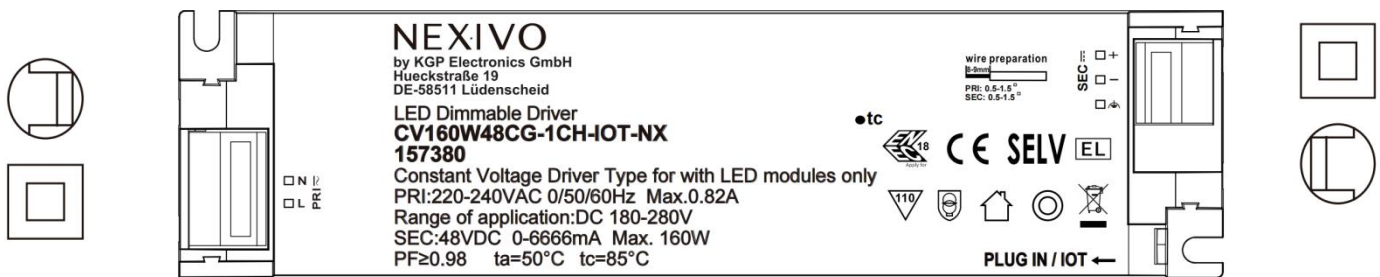
Others	RoHS	complied to 2011/65/EU
	MTBF	≥ 250 KHours, $T_a = 25^\circ\text{C}$ (MIL-HDBK-217F)
	Life Time	50000h $T_c = 85^\circ\text{C}$
		75000h $T_c = 80^\circ\text{C}$
		100000h $T_c = 75^\circ\text{C}$
	Warranty	5 years, F.R. < 10000ppm

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 wire length up to 50m.

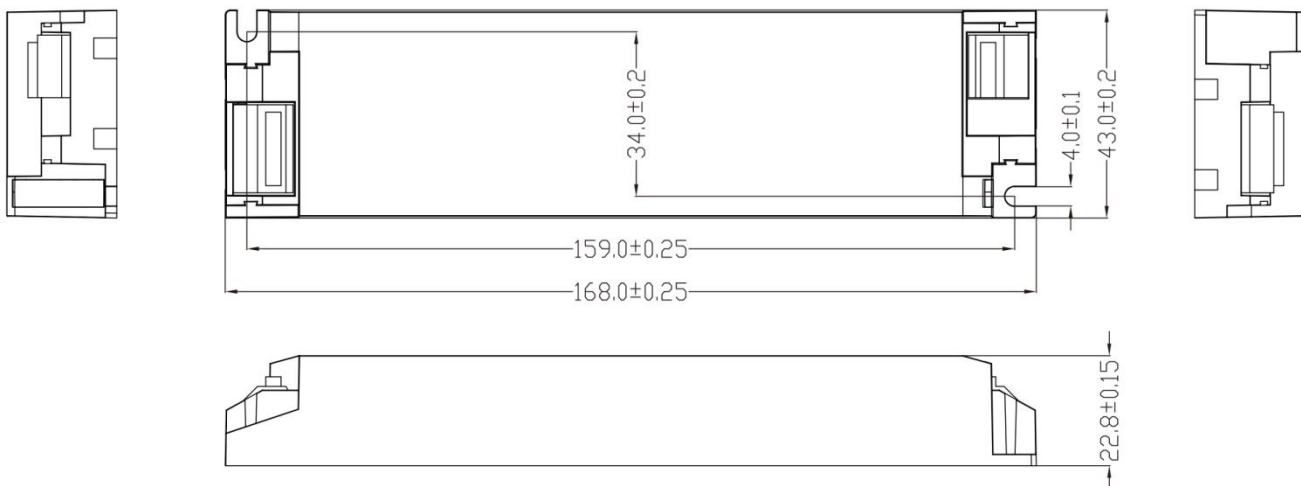
Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

2. Label



3. Dimension (Unit: mm)

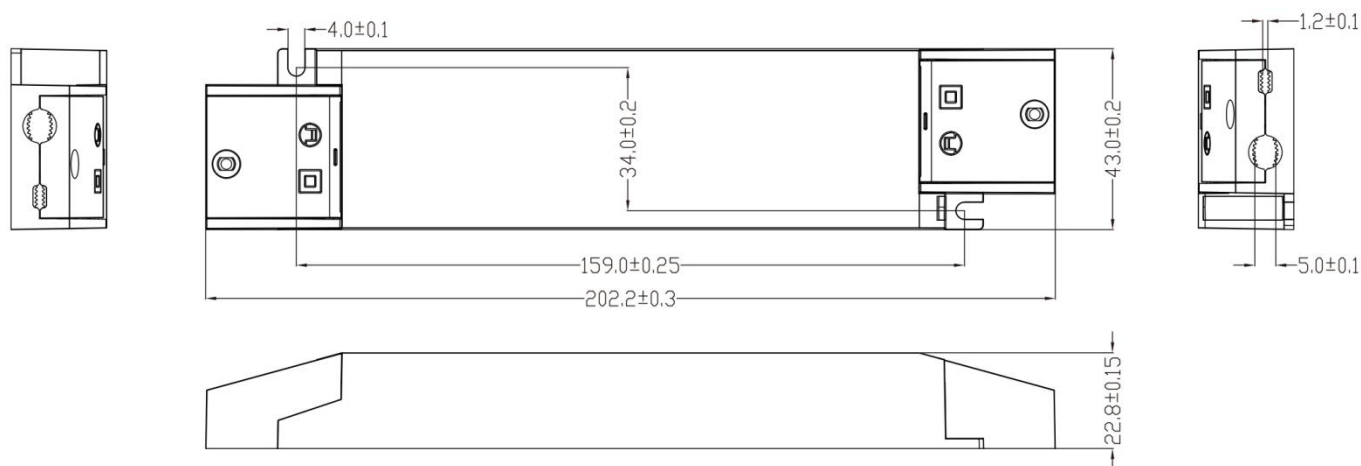
Built in type:



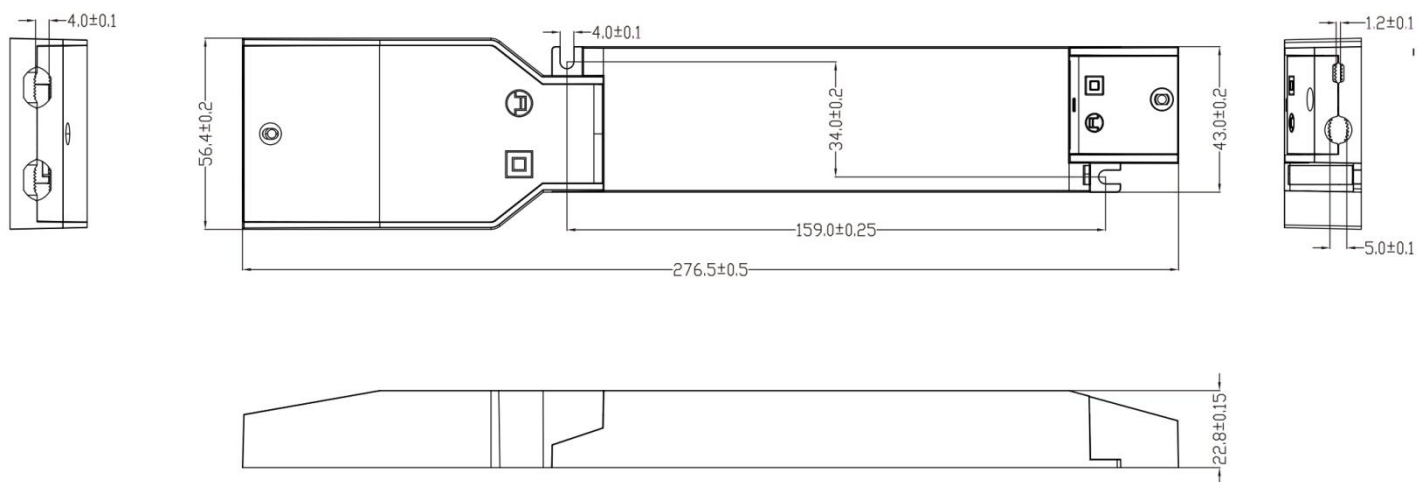
Compatible Small Strain reliefs:SR_CC15-23-36-44 IOT

Compatible Large Strain reliefs:SR_CC15-23-36-44 IOT_3POL

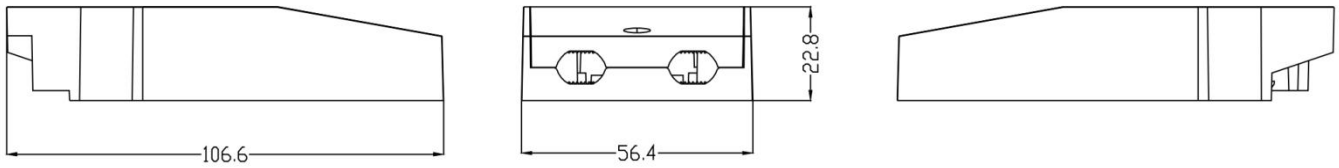
Small Strain reliefs



Large Strain reliefs



Large Strain reliefs specifications



Tolerance for dimensions ± 0.1 mm

Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 55.4-57.4 x 21.8-23.8 mm

Wire size: 0.5 - 2.5 mm²

Ambient temperature range: -25...+45 °C

Storage temperature range: -40...+85 °C

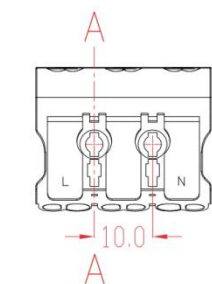
Assembly temperature range: +5...+30 °C

Do not store in wet or humid environment!

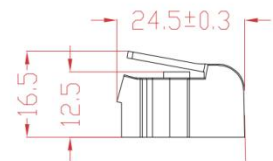
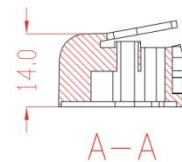
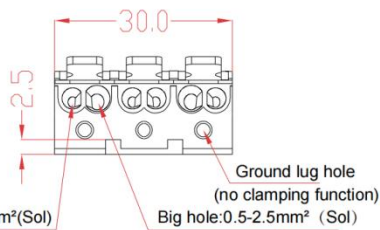
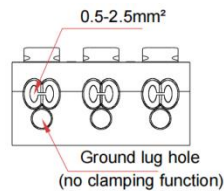
*Unless otherwise stated in the driver datasheet (for independent installation).

Note! T_c max temperature of the driver shall not be exceeded.

Terminal

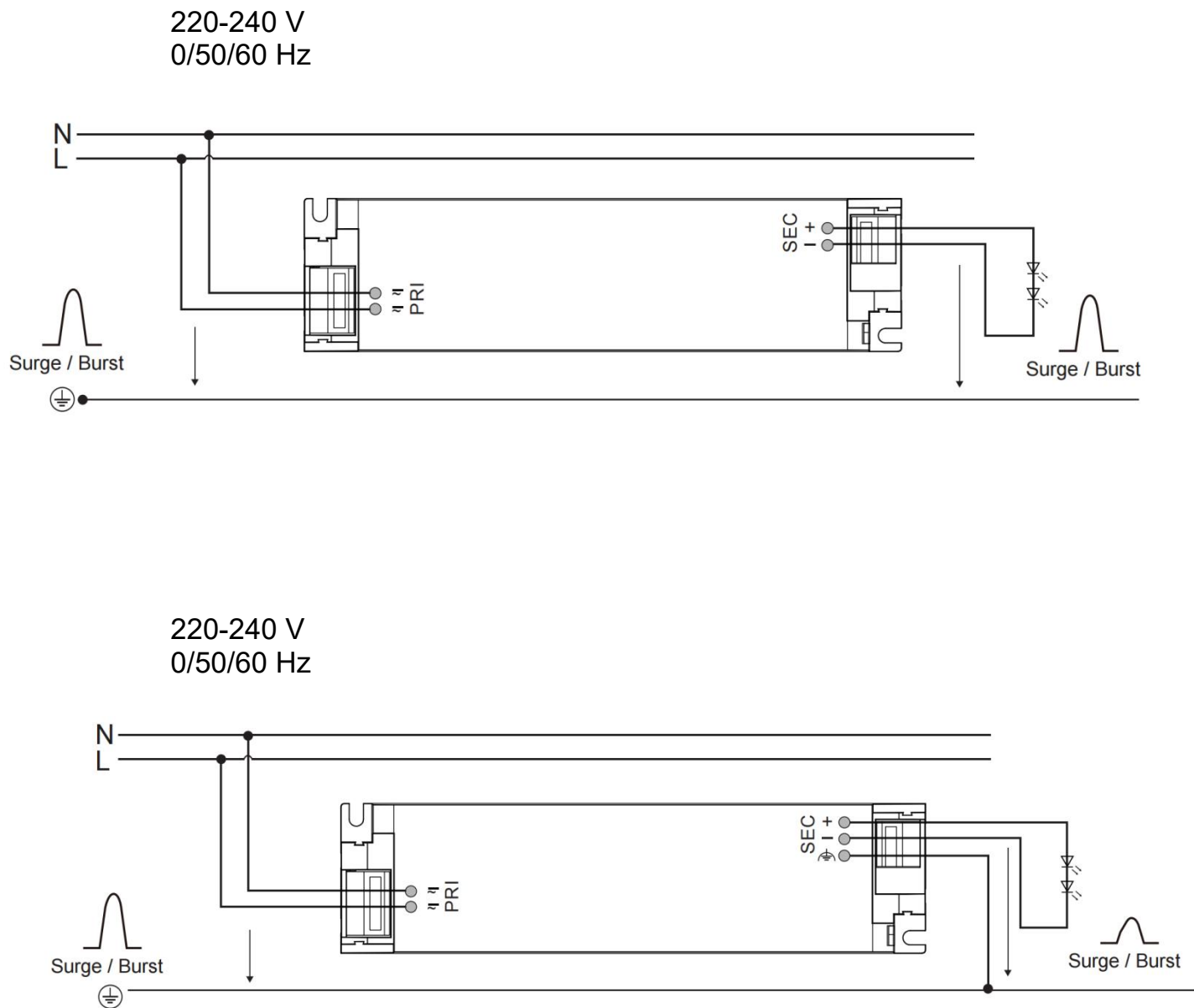


3 - pole connector for CC drivers with LC-SRB-LOOP



4. Wiring Diagram

Figure: Voltage peaks for LED driver without earthing (Above) and with earthing (Below)



5. Function of the earth terminal:



The earth connection is conducted as protection earth (PE). The LED Driver can be earthed via earth terminal or metal housing

(if device has metal housing). If the LED Driver will be earthed, protection earth (PE) has to be used. There is no earth connection required for the functionality of the LED Driver. Earth connection is recommended to improve following behaviour.

- Electromagnetic interferences (EMI)
- LED glowing at standby

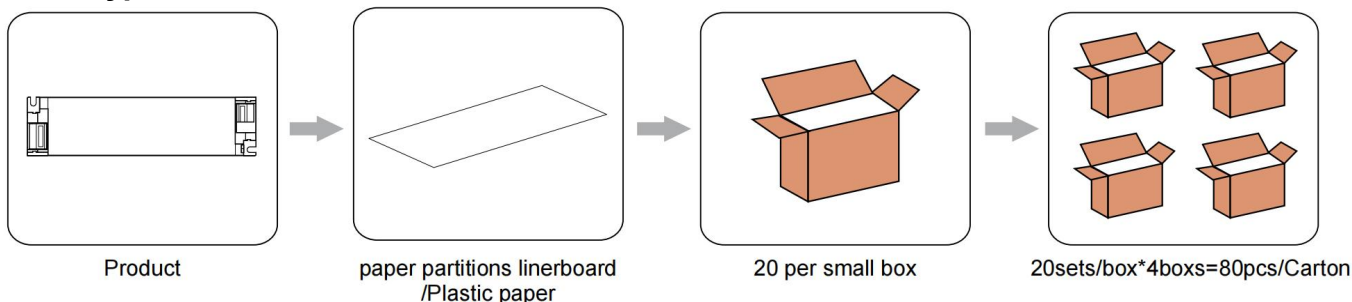
In general, it is recommended to earth the LED Driver if the LED module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

Avoiding residual LED glow on standby Residual LED glow on standby may occur as a result of capacitive leakage currents from the LED module onto earthed luminaire parts (such as the heat sink). This mainly affects high-efficiency LED systems with large surface areas installed in luminaires with protection class 1.

The topology has been improved so that residual LED glow can be virtually eliminated by earthing the devices.

6. Packing information

Built-in type



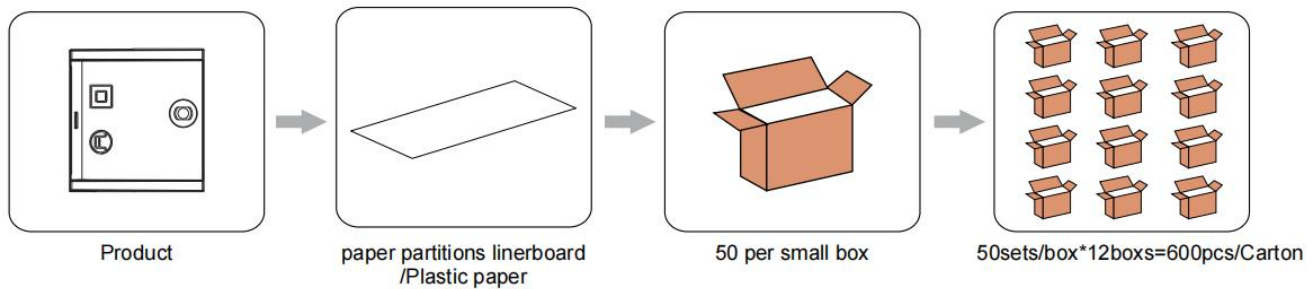
Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

Small Strain reliefs



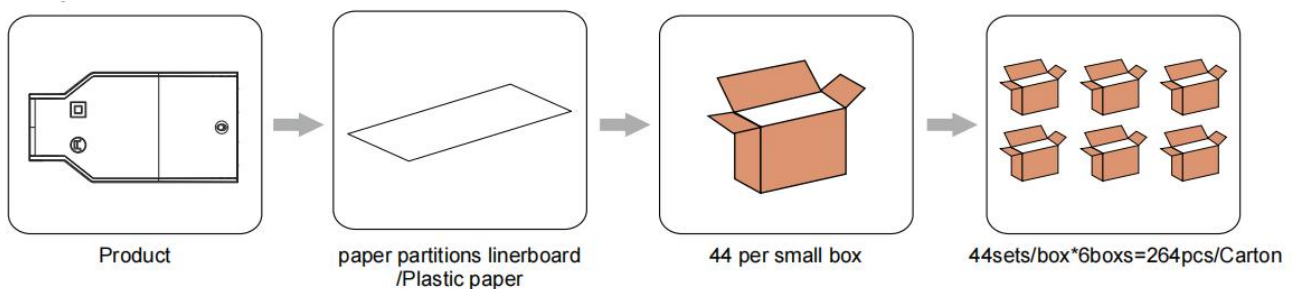
Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
224*138*90	50	0.008	0.40	0.76

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
460*430*195	600	0.008	4.26	4.76

Small Strain reliefs



Inner box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
300*180*122	44	0.055	2.42	2.58

Outer box

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
375*315*385	264	0.055	14.52	16.16

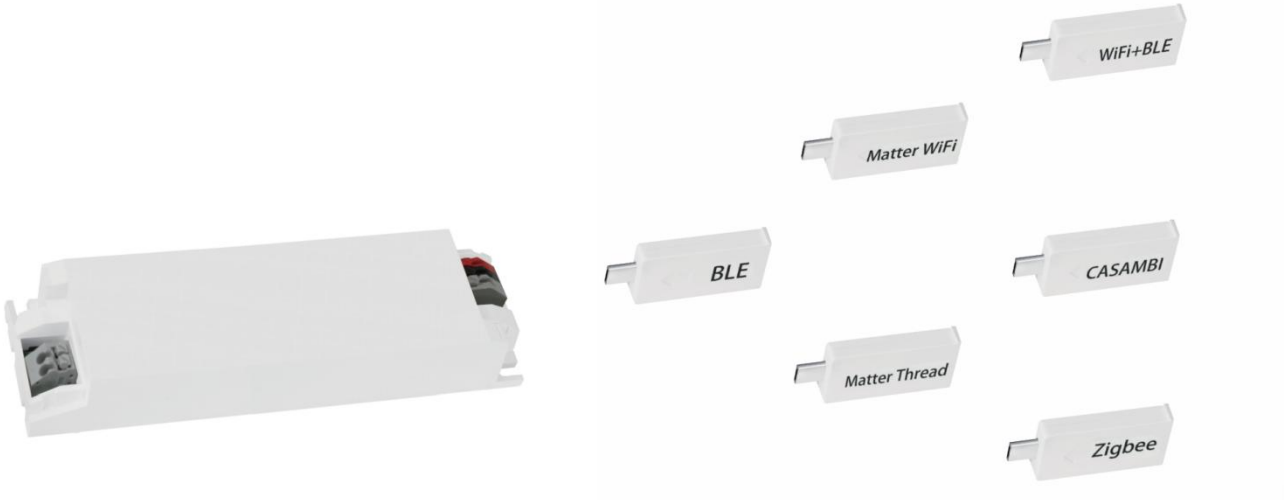
7. Ordering Data

Model No	Item code
CV160W48CG-1CH-IOT-NX	157380
SR_CC_15-23-36-44 IOT	154081
SR_CC_15-23-36-44 IOT_3POL	154065
CC-MATTER WIFI-X-NX	160390
CC-Matter Thread-X-NX	160410
CC-BLE+WIFI-X-NX	160370
CC-BLE-X-NX	160310
CC-Zigbee-X-NX	160330
CC-CASAMBI-X-NX	160350

8. Module Model

Module Model	Photo	Color	Size
CASAMBI X		White	34.6x19.2x5.6mm
Matter WiFi X			
BLE X			
Matter Thread X			
WiFi+BLE X			
Zigbee X			





9. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release
2026.27.06	V0.02	Add the logo for applying for ENEC certification
2026.15.07	V0.03	Ordering Data