

Constant Current Dimmable Driver

Model: SC42W300-1050CG6-W-DT8-HE-NFC-NX

SC42W300-1050CG6-B-DT8-HE-NFC-NX

SC42W300-1050CG6-G-DT8-HE-NFC-NX



Model	Item Code	Output current	Input current	Input power	Output power range	PF	Efficiency	Output voltage	No load voltage
SC42W300-1050CG6-W-DT8-HE-NFC-NX	159440	300-1050mA	$\leq 0.23A$	45.70W	3.00-42.00W	≥ 0.97	92%	10-42V	59V
SC42W300-1050CG6-B-DT8-HE-NFC-NX	159450								
SC42W300-1050CG6-G-DT8-HE-NFC-NX	159460								

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Amplitude (DALI-2)
	Output current setting	Near field communication (NFC)
	Dimming Type	Bluetooth
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II (compatible Class I)
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Frequency	50/60Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	$\leq 0.25A$ (230VAC, full load)
	Input Power	$\leq 45.70W$ (230VAC, full load)
	Power Factor	≥ 0.97 (230VAC, full load)
	THD	$\leq N/A$ (230VAC, full load)
	No-load Power Consumption	$\leq 0.5W$ (230VAC, full load)
	Inrush Current	$\leq 18A/2.8\mu s$ (230VAC, full load)

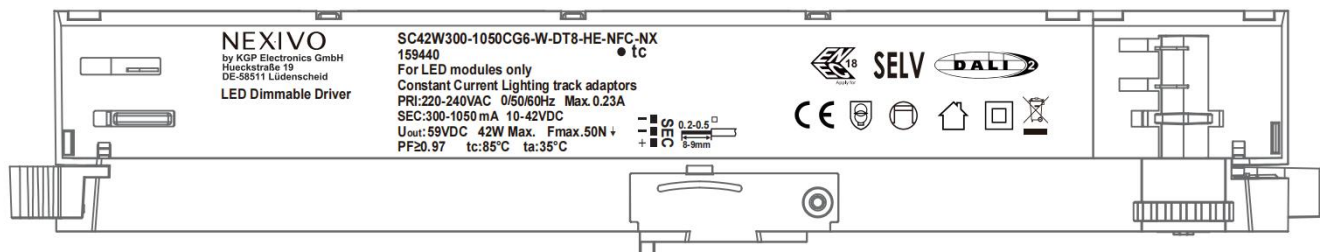
	Connected quantity of 10A Breaker	11pcs/type A ;17pcs/type B ; 28pcs/type C
	Connected quantity of 13A Breaker	14pcs/type A ;22pcs/type B ; 36pcs/type C
	Connected quantity of 16A Breaker	18pcs/type A;27pcs/type B ; 44pcs/type C
	Connected quantity of 20A Breaker	22pcs/type A;33pcs/type B ; 55pcs/type C
Output	Output Voltage Range	10-42VDC@300-800mA 10-40VDC@850-1050mA
	No Load Voltage	59VDC Max.
	Output channels	2
	Output Current	300mA -1050mA (by NFC setting, Factory set current of 300mA)
	Max. Output Power	42W
	Efficiency	≥92% (230VAC, full load)
	Output LF current ripple (< 120 Hz)	±5% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PSTLM	≤1
	SVM	≤0.4
	Starting Delay Time	≤0.5S (230VAC, full load)
	Color tuning range	2,700-6,500K
Control Method	Secondary PUSH dimming	Secondary PUSH dimming (Max. lead wire length: 20m, same port of DALI)
	PUSH-button	Max parallel connections qty for Push-dim 15
	DALI function	DALI dimming (Max. lead wire length: 300m) logarithm or linear dimming curve selectable
	Dimming range	DALI dimming:1%-100%
	NFC current setting	The output current can be set within the total value range in 1-mA-steps. Output current is mean value. Setting is by EX·IVO's software APP/APK/PC with FEIG equipment or mobile phone.
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 700μA, I/P to O/P @230V input
Environment	Ta/Operation Temperature	-25....+35℃
	Ts/Storage Temperature	-25....+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%.... 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	SEC Wire preparation	0.2-0.5□

	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	236.0 *31.1*42.2 mm(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	compliedto2011/65/EU
	Life Time	50000h Tc=85℃
		75000h Tc=80℃
		100000h Tc=75℃
	Warranty	5years , F.R. < 10000ppm
Remark: 1.All Parameters,if not specified,are measured at 230VAC/50Hz and 25℃ 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.		

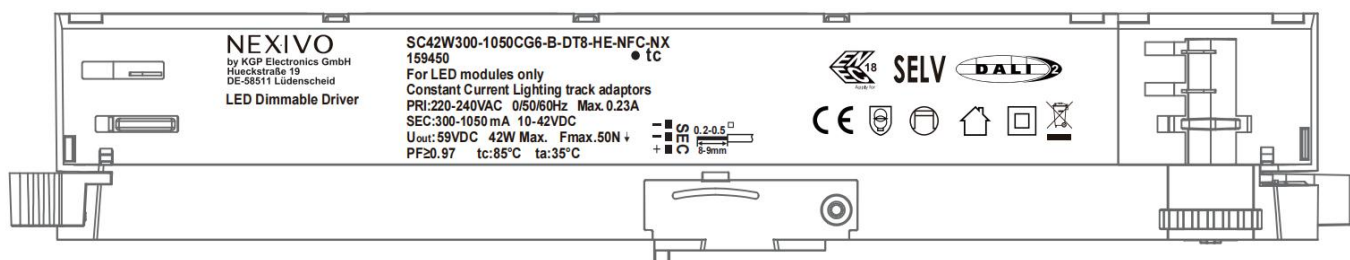
Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

2. Label

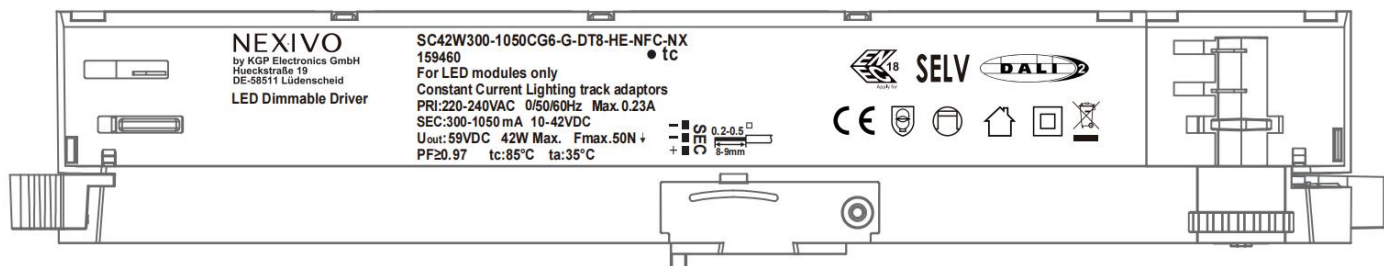
White (RAL 9016)



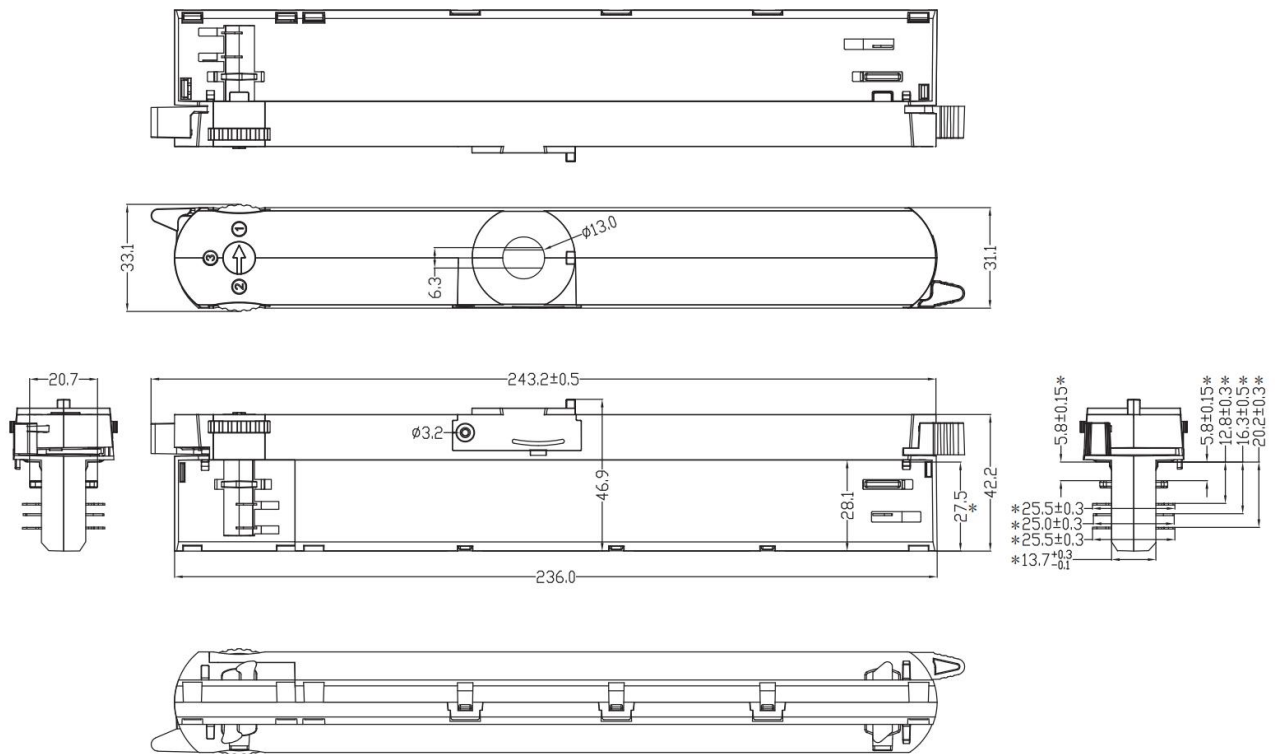
Black (RAL 9005)



Grey (RAL 7035)



3. Dimension (Unit: mm)



4. Wiring Diagram

Fig.A: Push Dimming

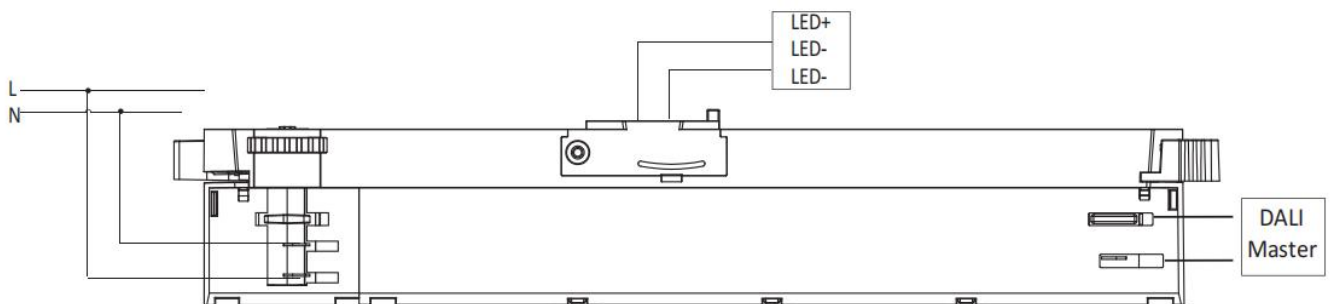
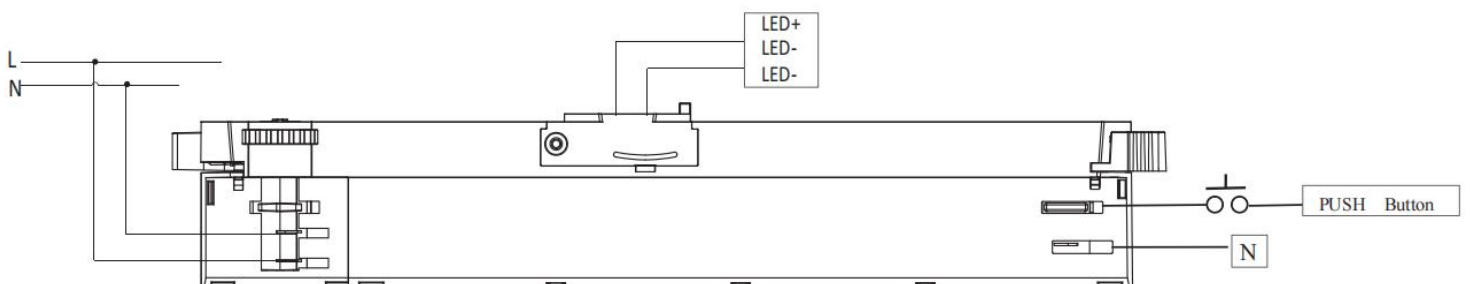
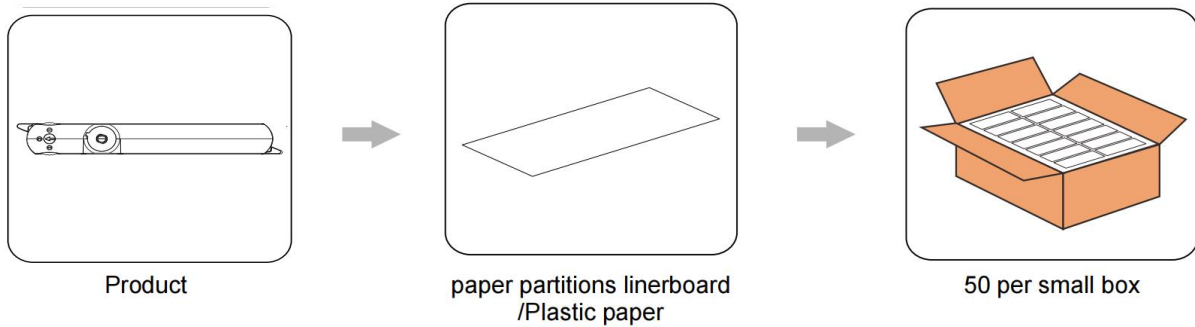


Fig.B: DALI Dimming



5. Packing information



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

6. Ordering Data

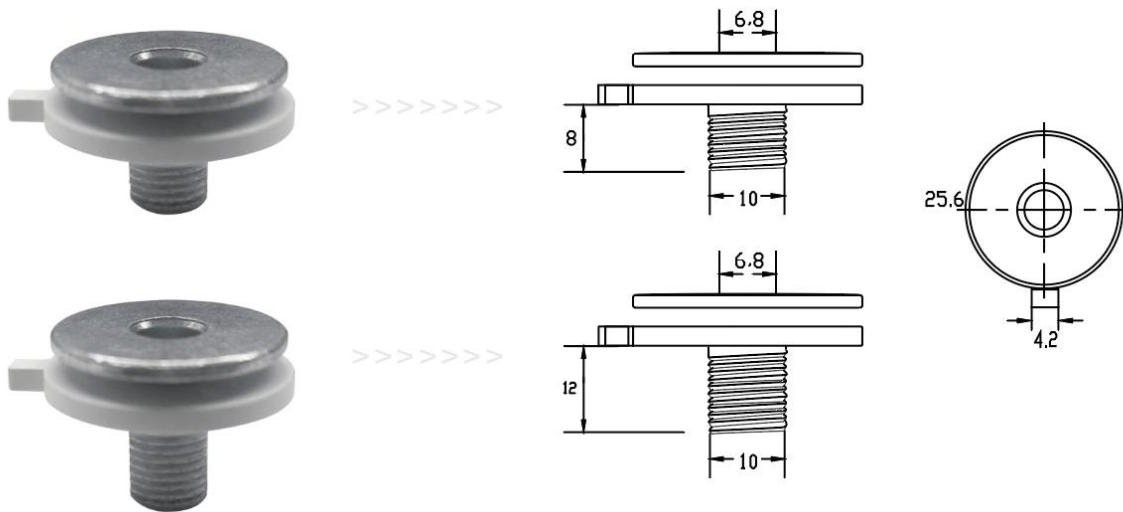
Model No	Item code
SC42W300-1050CG6-W-DT8-HE-NFC-NX	159440
SC42W300-1050CG6-B-DT8-HE-NFC-NX	159450
SC42W300-1050CG6-G-DT8-HE-NFC-NX	159460

7. Lamp Screw Type

- Optional threaded sleeve for luminaire mounting
- Suitable for M10x1x8 threaded nut
- Additional mounting equipment,e.g.M10x1x12
- aluminium, black, white
- further on request

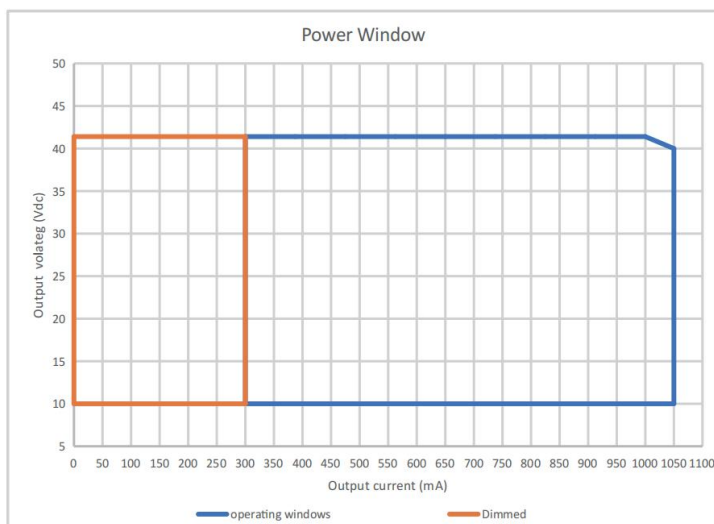
Ordering data

Type	Colour	Article number	Qty/ctn	weight/pcs
M10X1X8	White	2011011	500	5.1g
	Black	2011010	500	5.1g
	Gery	2011012	500	5.1g
M10X1X12	White	2011017	500	5.7g
	Black	2011016	500	5.7g
	Gery	2011018	500	5.7g



8. Electrical values

1. Operating power windows



9. NFC current setting:

NFC Reader (optional)

Feature:

Easily on-line read a output current from a driver or write a new current data to a driver throughout NEX·IVO NFC reader within few seconds.



Model No	Description	Interface	Matching antenna	Zhaga approval	Usage
ID CPR30+ 	Desktop programmer	USB	Integrated	Yes	Single Programming on Desktop
ID ISC.PRH101-USB 	Handheld programmer	USB	Integrated	Yes	Single Programming by Handheld
ID ISC.MR102-USB 	Middle range programmer, for connecting external antenna	USB	RF-MANT12786 	Yes	Single Programming on Product line
ID ISC.LR1002-E 	Long range programmer, for connecting external antenna	USB, RS232, TCP/IP	ID ISC.ANT310/310 	Yes	Multi Programming System

APP NFC

Feature:

Quickly check output current of a LED driver simply via iPhone smart phone, as well as, correct or setup a new current data immediately with no extra equipment at any job site

iPhone ICON



Main



Download method

1.Scan the QR code to download



2.On your iPhone, search for KGP NFC in APP Store to download it



Phone smartphones with NFC can be downloaded and used directly

Download method

1.Scan the QR code to download



Android smartphones with NFC can be downloaded and used directly

Android ICON



Main



Product	Description	Interface	Matching antenna	Zhaga approval	Usage
ID ECCO Smart HF-BLE 	Handheld wireless programmer	USB,Bluetooth LE V4.2 & V5.0	Integrated	Yes	Handheld programming, installation and maintenance work

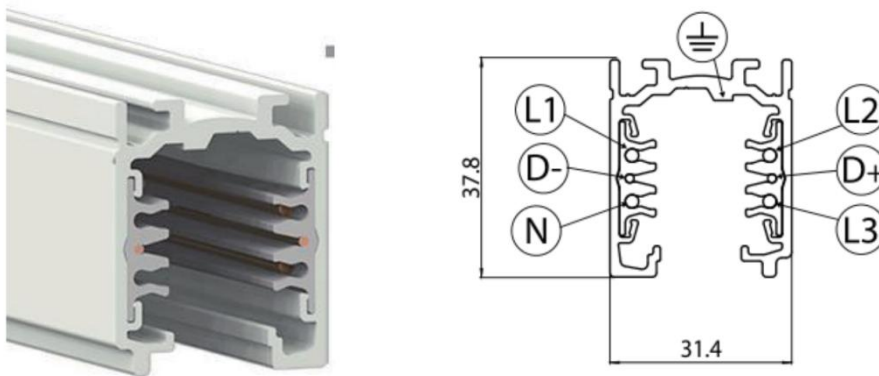
10. Suitable for following tracks

Serial number	Brand	Track model	System
1	Global	XTSC6&XTSCF6	3P
2	Stucchi	9000XXSeries	3P
3	Unipro	TC33B	3P
4	ERCO	ZUMTOBEL	3P

Remark:

1. The model name is XTSC6 and XTSCF6 tracks, and its brand is Global.
2. The model name used is the 900oXX track, and its brand is Stucchi. The "XX" in the model name represents: it represents a different color.
3. The model name is TC33B tracks, and its brand is Unipro.

11. Phase track light rail specification:



12. Lighting track adapter and rail system installation diagram:



The adaptor shall be given that the use is limited to the track system specified.

13. Push Dim :

14.1 On / off:

Short push (120ms-600ms) on the switch

Stepless dimming: long push (> 0.6sec) on the switch

14.2 Power-on memory function

When the LED driver is powered on, it will restore the memory before the LED driver is powered off. (brightness remembers the brightness after the last dimming is stable, and the brightness during dimming is not memorized)

14.3 Light on/off

If the light is on, the light will be off after a short press. If the light is off, the light will be on after a short press. The time range of short press is 120-600ms.

14.4 PUSH Dimming

Press and hold the push switch for a long time, the light will enter the dimming state, if the previous time is dimming, it will automatically turn to dimming the next time. After releasing the reset button, the dimming stops and the current illuminance is maintained. The dimming range is 1%-100%. The default is to dim when the power is first long-press. If the brightness of the power-on is the maximum brightness, the first long-press is to dim. (Long press 0.6-3S to start dimming.)

14.5 Forced synchronization

Long press for 10 seconds to turn on all the lights and turn on the same brightness (50%), and continue to quickly short press will not change. After a short period of time without short press operation, the module exits the synchronization mode, and the short press restores the switch function.

14.6 PUSH Dimming rate

Long press the push switch 10S to switch the dimming rate to 3S, Long press the push switch 20S to switch the dimming rate to 6S.

14. 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.)

15. REVISION HISTORY

Date	Revision	Remark
2026.16.03	V0.01	Product release