Constant Current Driver

- The housing is made from V0 flame retardant PC materials from COVESTRO.
- Small size and light weight. Wide range of applicable lamps.
- Class 2 LED driver, Safety Extra Low Voltage (SELV).
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, overload, short circuit protection and automatic recovery.
- Up to 50,000-hour life time.
- 5-year warranty (AiSHi capacitor).

SELV CE 110 EL NFC

The certification icon represents on-going certification applications only, and final certification qualification is subject to actual products.

Flicker Free IEEE 1789 flicker-free | Short Circuit Protection | Over Load Protection | Overheat Protection

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Typical Efficiency	Output Voltage	No load Voltage
S-088-C36W150-900 NFC	150-900mA	≤0.21A	40.7W	0.38-36.00W	≥0.95	88.5%	2.5-50Vdc	60Vdc

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

Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output current setting	Near field communication (NFC)
	Output Features	Isolation
	IP Grade	IP68
	Insulation Class	Class II(compatible Class I)
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	≤0.21A max
	Input Power	≤40.7W max
	Power Factor	≥0.95 （230VAC, full load)
	THD	≤10% (230VAC，full load)
	No-load Power Consumption	≤0.5W @230VAC (DALI system DIM to off)
	Inrush Current	≤8.5A/2.6us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	23pcs/type A ; 37pcs/type B ; 59pcs/type C @ 230Vac 29pcs/type A ;47pcs/type B ; 76pcs/type C @ 230Vac 37pcs/type A; 59pcs/type B ; 94pcs/type C@ 230Vac 46pcs/type A; 74pcs/type B ; 118pcs/type C @ 230Vac
	Output Voltage Range	2.5-50VDC@150-700mA, 2.5-42VDC@750-850mA, 2.5-40VDC@900mA
	No-load Voltage	60VDC Max.

Schigna Technology
7th Floor,No.13,
Shunde,foshan

Output	Output Current	150-900mA (by NFC setting，Factory set current of 150mA)
	Max. Output Power	36.0W
	Efficiency	≥88.5% (230VAC，full load@max current)
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PstLM	≤1
	SVM	≤0.4
	Starting Time (AC mode)	≤0.5S (230VAC，full load)
Control Method	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 SGN'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	-20....+50℃
	Ts/Storage Temperature	-20....+90℃
	Tc/Enclosure Temperature	90℃
	Humidity	10%....90%RH
	Atmosphere pressure	86-108KPa
Construction	Connection Method	Wire
	Installation	Independent
	PRI Wire preparation	500mm
	SEC Wire preparation	500mm
	Dimension	88*45*25mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	Performance	EN 62384
	Surge	L-N:2kV
Others	RoHs	2011/65/EU
	Life Time	50000h Tc=90℃
		75000h Tc=85℃
		100000h Tc=80℃
	Warranty	5years， F.R. < 10000ppm

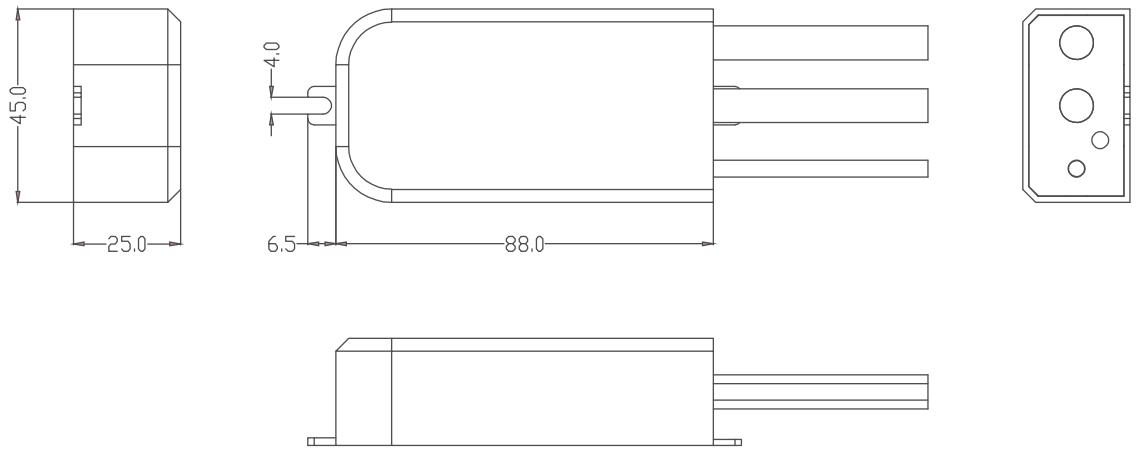
Remark:

1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.

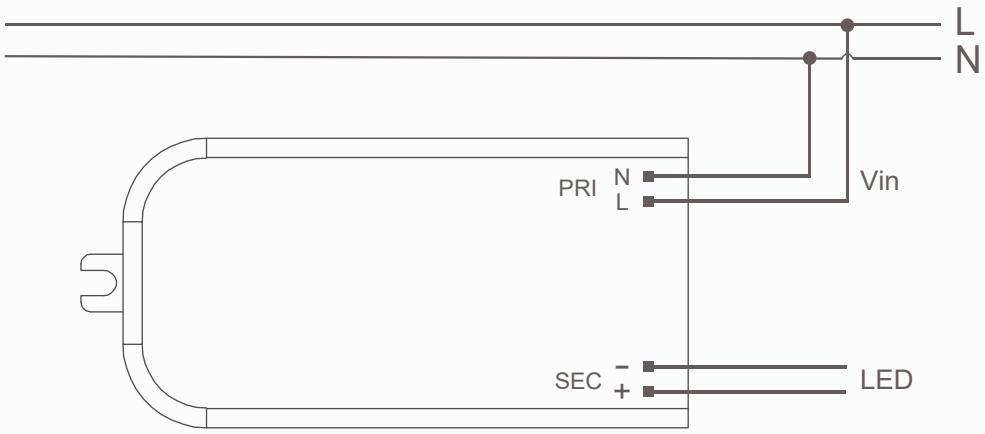
2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

Label

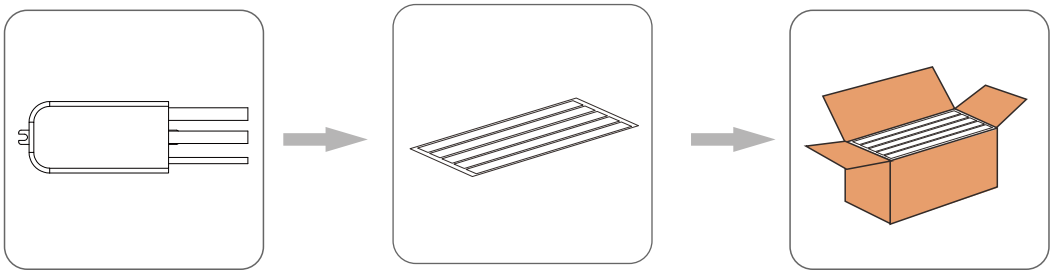
Dimension



Wiring Diagram



Packing information



Product

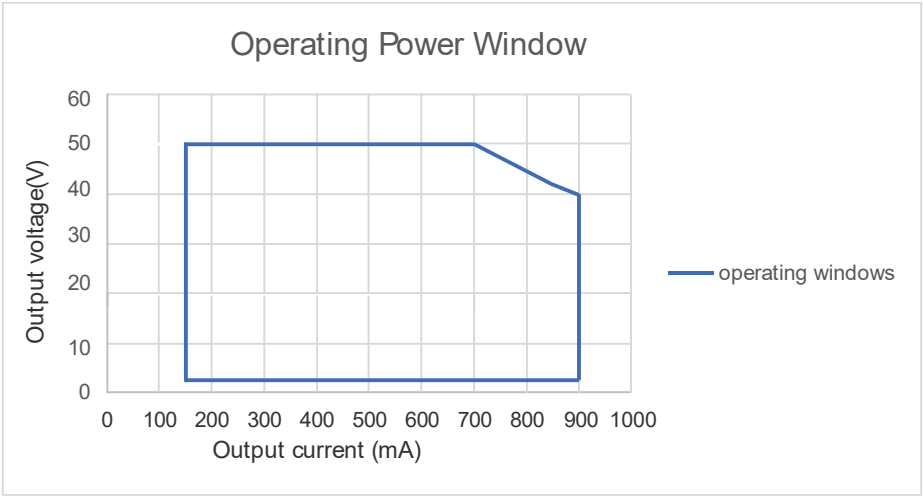
Paper Partitions linerboard /Plastic paper

x sets X xth floor = x sets/box

Model	Carton L*W*H(mm)	Pcs/-Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Cross weight/-Carton(kg)
S-088-C36W150-900 NFC	T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

Electrical values

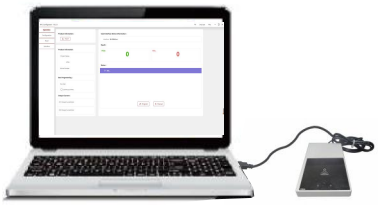
1. Operating power windows

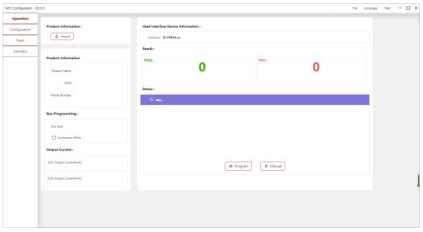


NFC current setting

NFC Reader (optional)

Feature:
Easily on-line read a output current from a driver or write a new current data to a driver throughout SGN NFC reader within few seconds.





Product	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.

ICON

Main

Download method

1.Scan the QR code to download

iPhone smartphones with NFC can be down-loaded and used directly

An iPhone smartphone without NFC requires the following devices to use it

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

REVISION HISTORY

Date	Revision	Remark