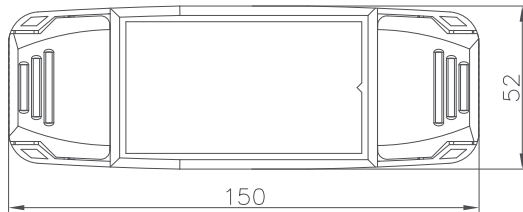CONSTANT CURRENT & VOLTAGE

Dimmable LED Driver
1-10V Dimming & Switch-Dim

CE ⓢ emc

Model: HE2030V-A

Switch-Dim →
N →
L →

DIP Switch
(for LED current & voltage Selection)

LED +
LED -
1-10V +
1-10V -

52
150
28
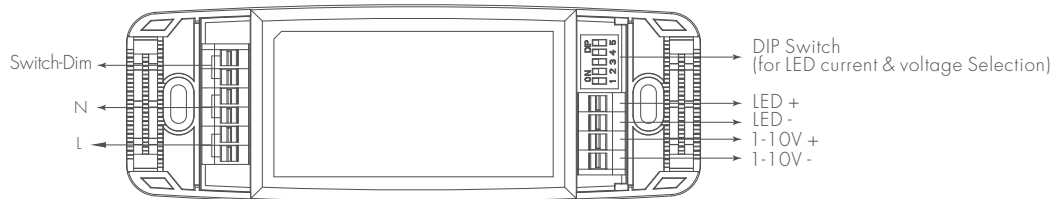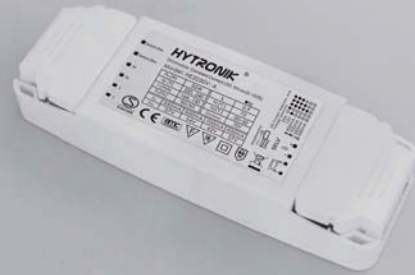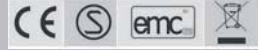
Switch-Dim.

PFC >0.9

> 85% Efficiency

Short Circuit Protection

Loop in
Loop out

Synchrony

Permanent Memory

0~100% Dimming Range

1...10V dimming

ON
1 2 3
Multiple Current

Over-heat Protection

Over-load Protection

Linear Dimming Curve

CONSTANT CURRENT & CONSTANT VOLTAGE

LED Current & Voltage Selection

The current & voltage can be easily configured by choosing the correct combination of the DIP switches (see table on the right).

⚠ Warning: Please make sure the correct current or voltage is selected before starting the driver!
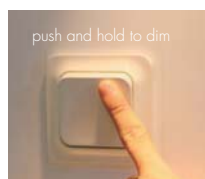
	1	2	3	4	5	mA/V
I	○	●	●	●	●	24V
II	●	○	●	●	●	12V
III	●	●	●	●	●	900mA
IV	●	●	●	●	○	700mA
V	●	●	●	○	○	500mA
VI	○	○	○	○	○	350mA

Loop-in, loop-out

Thanks to double terminals on the primary side, it is easy to connect many drivers in series, just simply take the L, N and switch-Dim. from the previous driver to the next driver. Saves a lot of wires and work.

Switch - Dim

push and hold to dim

- On/off control: short push (<1s) on the switch.
  Note: Short push should be at least 0.12s, and the time interval between two pushes should be longer than 0.12s also.
- Stepless dimming: long push (>1s) on the switch.
- For fine tuning of light level: with every other long push, the light level goes to the opposite direction.
- Built–in with permanent memory: light returns to the previous dimming level when switched off and on again, even at power failure.

Synchronization

Up to 50pcs drivers can be connected to the same switch, thanks to the programme. This means there is no need for any additional synchrony wire in large installation, where many drivers should be controlled by one switch.

Please follow the steps below to achieve synchronization function if more than one driver are connected to the same push botton:

- Press the push button for more than 1s (long push), then a short push (<1s). Now the devices are switched off.
- Long push the button, the system is now synchronized.

Permanent memory

This driver has buit-in permanent memory against power failure, which means the light always starts up at the previous level when it was switched off last time.

Switch-Dim Wiring Diagram

1-10V Dimmer Wiring Diagram
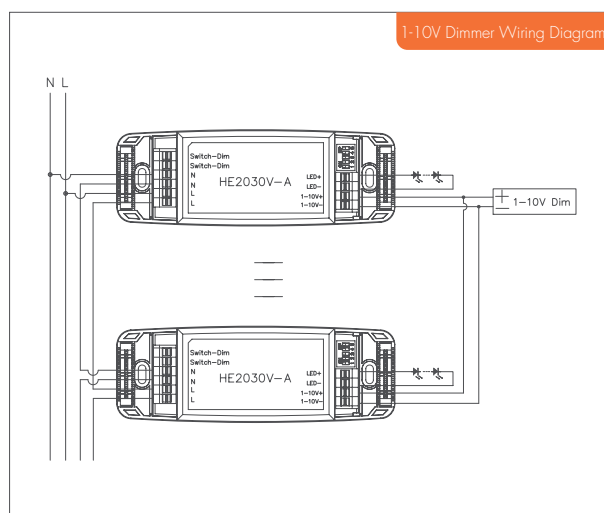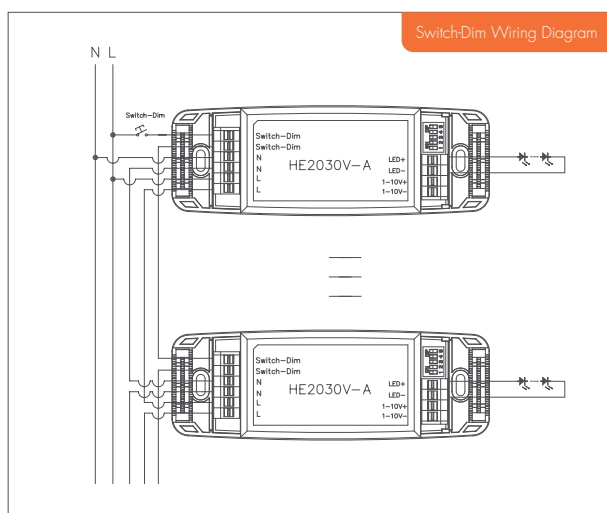
⚠ Note: 1. Default setting is "1-10V" dimming.
　　　　2. This "1-10V" output is isolated, SELV output.
　　　　3. To shift dimming from "Switch-Dim" to "1-10V", the end-user should short-circuit "1-10V" first for at least 3s.

Specification	
Mains voltage	220~240VAC　50/60Hz
Mains current	0.164A
Mains power	35W
Output voltage(U-out Max.)	70VDC
Power factor	≥0.9
Operation temperature	Ta: -20~+50℃　Tc: 75℃
Output current/voltage	350mA (6VDC~57VDC)　　　　500mA (6VDC~54VDC) 700mA (6VDC~43VDC)　　　　900mA (6VDC~27VDC)
Output voltage/power	12V-Max.10.8W;　24V-Max.21W
Max. Efficiency	85%
Abnormal protection	Output short-circuit protection with auto-reset
Over-heat protection	Over-heat protection with auto-reset
Dielectric strength	Input→Output 3750VAC/5mA/1min
IP grade	1P20
EMC standard	EN55015, EN61547
Safety standard	EN61347-1, EN61347-2-13
Certification	Semko, CE , EMC