

USER GUIDE

LE2512DP, LE2524DP

Dimmable constant voltage LED drivers.

NEW VERSION



Technical Features

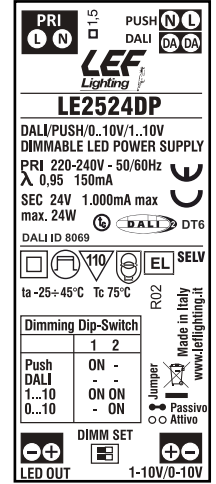
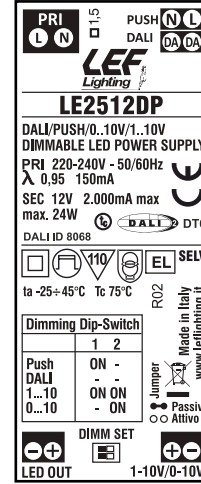
- Input voltage range 220-240Vac
- Input frequency 50±60Hz
- Constant voltage output 12Vdc (LE2512DP)
- Constant voltage output 24Vdc (LE2524DP)
- Brightness adjustment through:
 - push-button (PUSH 230Vac)
 - DALI signal
 - 0-10V signal (active or passive)
 - 1-10V signal (active or passive)
 - 100 Kohm potentiometer
- Synchronization of multiple drivers by cable (max 10)
- Energy Efficiency (EE) 87%
- Overload protection (OLP)
- Short circuit protection (SCP)
- Power factor correction (PFC) $\lambda \geq 0,95$
- Operating ambient temperature T_a -25°C ÷ +45°C
- Max case temperature on T_c 75°C

Reference Standards:

- EN 55015
- EN 61000-3-2
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 62384
- EN 62386-207



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CODICE CODE	Tensione di ingresso Input voltage (Vac)	Frequenza di rete Input frequency (Hz)	Potenza di uscita Output power (W)	Comando Command	Tensione di uscita Output voltage (Vdc)	Corrente di uscita Output current (mA)	PFC (λ)	CC CV	Peso Weight (g)
LE2512DP	220-240	50±60	24	PUSH DALI 0-10V	12	2000	0,95	CV	180
LE2524DP					24	1000			

Settings

There are four distinct modes read on startup (the settings have to be made by dip-switch before ignition).

- PUSH** (regulation OFF, 2-100%) -profiles: up/down; Low level in PUSH is different to 0 to distinguish it from OFF.
- DALI** (regulation OFF, 2-100%)
-Power on: 100%
-System fail level: 100%
- Dimming 1-10V**, reducing the brightness up to a predetermined minimum without ever switch off.
- Dimming 0-10V**, reducing the brightness up to shutdown.

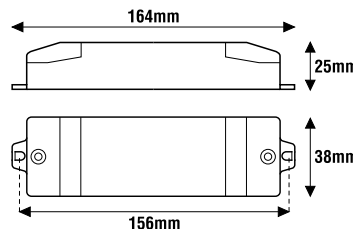
ATTENTION: to keep SELV insulation and to avoid damaging the power supply, please connect to terminal 0..10 or 1..10 only system with reinforced insulation.

INSULATIONS

	PRIMARY	PUSH or DALI	1..10 V	SECONDARY
MAIN	—	Basic	Double	Double
PUSH or DALI	Basic	—	Double	Double
1..10 V	Double	Double	—	Functional
SECONDARY	Double	Double	Functional	—

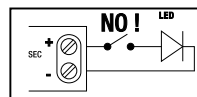
General Characteristics

- Plastic case
- Driver for independent mounting
- Electric class protection II
- Protection degree IP20



Restart after a power failure

- If it is on dimmer PUSH mode, It starts from the last data set (STATUS MEMORY).
- If it is on dimmer DALI mode, It starts from the last data set.
- If it is in dimmer 1-10V or 0-10V mode, input value is read according to the programming.



N.B.

Power supply not suitable for no-load operation.

ATTENTION:

The installation of the product must be followed by qualified personnel. If the product is used for purposes other than the original ones or if it is connected incorrectly, LEF Lighting S.R.L. will not accept any responsibility for damages caused.

INPUT:

- Terminal block for up to 1 x 0,5...2,5mmq
- Strain relief for cables with diameter $\varnothing \approx 3...8$ mm
- Max current: 150mA

OUTPUT:

- Terminal block for up to 1 x 0,5...1,5mmq
- Strain relief for cables with diameter $\varnothing \approx 3...8$ mm



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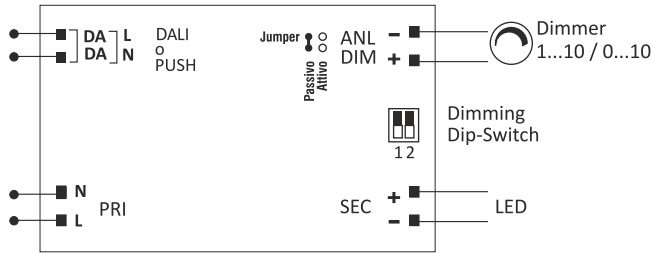
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DIMMING DIP-SWITCH		
Comando	1 2	
PUSH	ON	-
DALI	-	-
1-10V	ON	ON
0-10V	-	ON

In the case of wrong setting of Dip, the LED flashes 1s ON and 1S OFF.

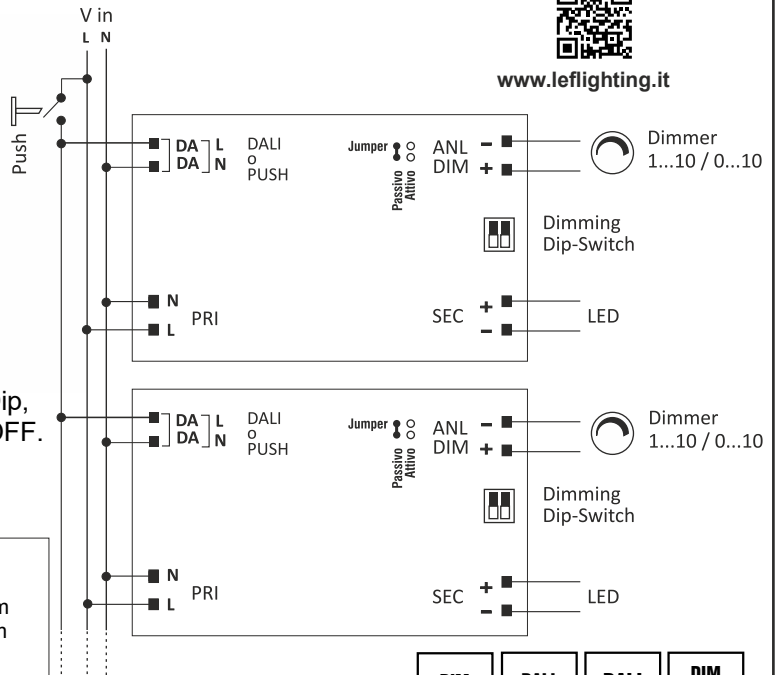
JUMPER SET - Selection of the active or passive mode



Insert the jumper:
Mod. 1-10V with potentiometer
Mod. 0-10V with potentiometer



Remove the jumper:
Mod. 1-10V with active system
Mod. 0-10V with active system



DIM DALI	DALI DT6	DALI 2	DIM PUSH 230Vac
DIM 1-10V	DIM 0-10V	0/1-10V Active Passive	DIM POT 100KΩ

PUSH mode

- Short press the push key for ON/OFF (on and off ramps).
- Long press the push key for dimmer.
- Low level is different from 0 to distinguish it from OFF.
- Memory of the last dimming data. At each ON, driver starts from the last data set.
- Method of resynchronisation (necessary to compensate for synchronization errors when there are many drivers in parallel): in OFF/ON position press the push key for a long time (30 sec), driver will be 100%; the next time the push key is pressed, luminous flux will start to decline according to the set profile.
- Total length of PUSH cables: 15 m.
- Maximum driver recommended: 10.

Up/Down profile

- Press the push key, the dimming reverses its direction. Arrived to the minimum (or maximum) level, the status is maintained. Time from minimum to maximum: 8 sec.

DALI mode

- Regulation OFF, 2-100%.
- Power on: 100%.
- System fail level: 100%.

1-10V mode - Potentiometer

- You can use commercial dimmer 1-10V. The LED brightness varies proportionally to the signal sent to the terminal from 2 to 100%.
- It's possible to use potentiometer up to 100KOhm. The variation in the brightness of the LEDs is in proportional or logarithmic depending on the model of the used potentiometer (recommended logarithmic).
- Insert jumper for resistive potentiometers: I_{out} max= 1,4mA.
- Remove jumper for active system (Konnex interface, EIB, touch screen potentiometer, PC, domotic system, ecc.): input impedance: 100KOhm.

0-10V mode

- You can use systems 0-10V.
- The LED brightness varies proportionally to the signal sent to the terminal from 0 to 100%.
- Remove jumper and use this position for each active system. (Konnex interface, EIB, touch screen potentiometer, PC, domotic system, ecc.) input impedance: 100KOhm.
- Inserting jumper, it still have the possibility to turn off completely, even using resistive potentiometers: I_{out} max=1,4mA.



EE 87%



max 10 SLAVE

SYNCR0 by PUSH

DIP SWITCH



PRODUCT TO BE DISPOSED DIFFERENTLY FROM URBAN WASTE
MADE IN ITALY
AEE Identification nr.IT18040000010321

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