

# USER GUIDE

## LE10024DP, LE15024DP

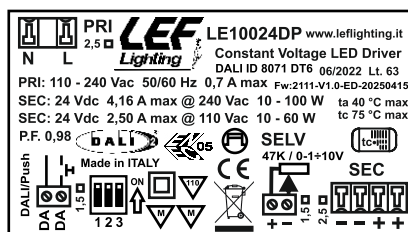
Dimmable constant voltage LED power supplies

FLICKER FREE  
Version



### General Characteristics

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



FLICKER  
FREE



www.lef-lighting.it

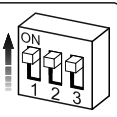
### Reference Standards

EN 55015  
EN 61000-3-2  
EN 61000-3-3  
EN 61347-1  
EN 61347-2-13  
EN 61547

### DIP-SWITCH

1	2	3	Mode
OFF	OFF	X	DALI/Push 230V
OFF	ON	X	Push 24V
ON	OFF	X	0..10V
ON	ON	X	1..10V
X	X	OFF	PWM 250Hz
X	X	ON	PWM 3KHz

MOVE DIP SWITCHES  
UP TO SET TO ON



! Changing settings when the device  
is not powered



Code	DALI Product ID	GTIN
LE10024DP	8071	8054521530050
LE15024DP	8717	8054521532368



EE  
93%

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)
			@110V		@230V				@110V	@230V			
			MIN	MAX	MIN	MAX							
LE10024DP	110-240	50÷60	10	60	10	100	PUSH   DALI   0-10V 1-10V   POT47KΩ	24	2500	4160	0,98	CV	330
LE15024DP										6250			380

### Technical Features

Input voltage range 110-240Vac  
Input frequency 50÷60Hz  
Constant voltage output 24Vdc  
Minimum output power 10W@230Vac  
Minimum output power 10W@110Vac

#### Brightness adjustment through:

- push-button (PUSH 230Vac)
- push-button (PUSH 24Vdc)
- DALI signal
- 0-10V signal
- 1-10V signal
- 47Kohm potentiometer

(setting by dip-switch)

#### PWM output voltage frequency:

- 250Hz
- 3000Hz (3KHz) (Flicker Free)

Factory setting: DALI input active.

«LEVEL MEMORY» and «STATUS MEMORY» function

Synchronization of multiple power supplies via cable (max 10)

Energy Efficiency (EE):

- 91% (LE10024DP)
- 93% (LE15024DP)

Open circuit protection (OCP)

Overload protection (OLP)

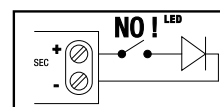
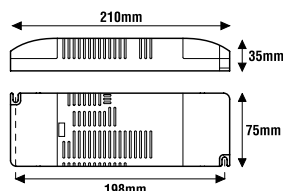
Protection against overtemperature (OTP)

Short circuit protection (SCP)

Power factor correction (PFC) λ ≥ 0,98

Operating ambient temperature Ta -15°C ÷ +50°C

**New high-frequency (3KHz) PWM (Pulse Width Modulation) technology (Flicker Free) to improve the stability of light in video footage and the visual comfort of people**



#### N.B.

Device not suitable for  
no-load operation.

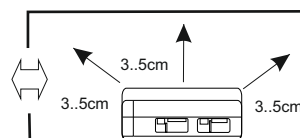
#### ATTENTION:

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.

#### Correct installation

Power supplies  
must have adequate space for cooling.  
Observe the minimum distances given.



PAP



PRODUCT TO BE DISPOSED DIFFERENTLY  
FROM URBAN WASTE  
AEE identification nr.IT18040000010321

MADE IN ITALY



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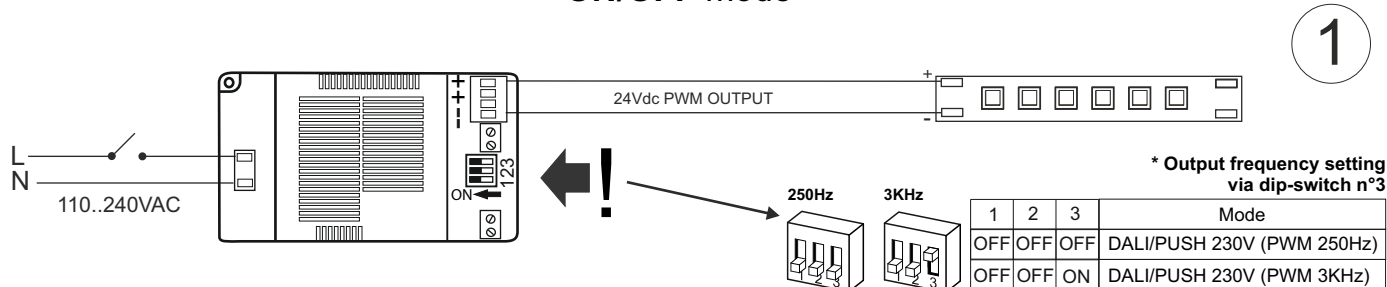
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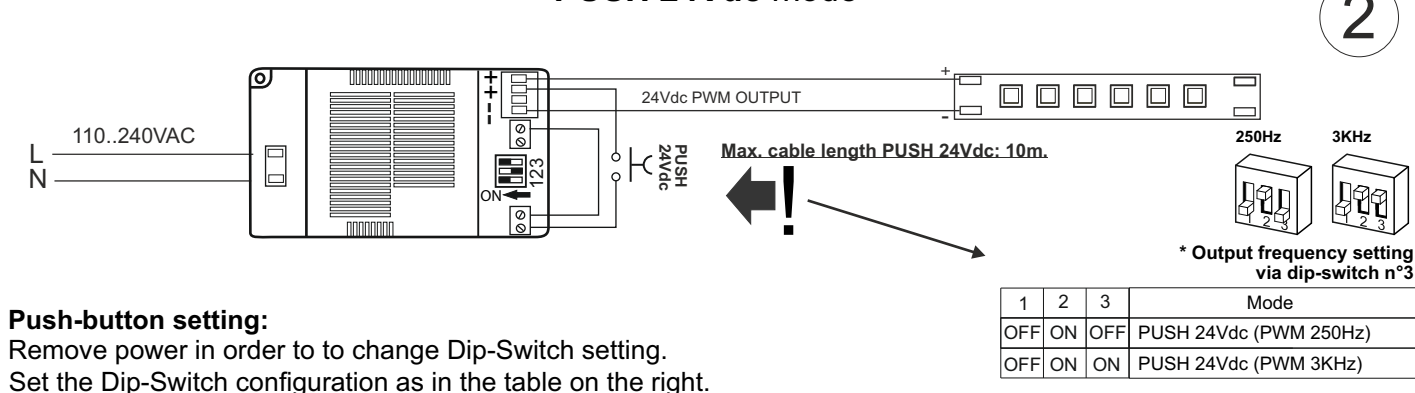


### CONNECTION OF A SINGLE POWER SUPPLY

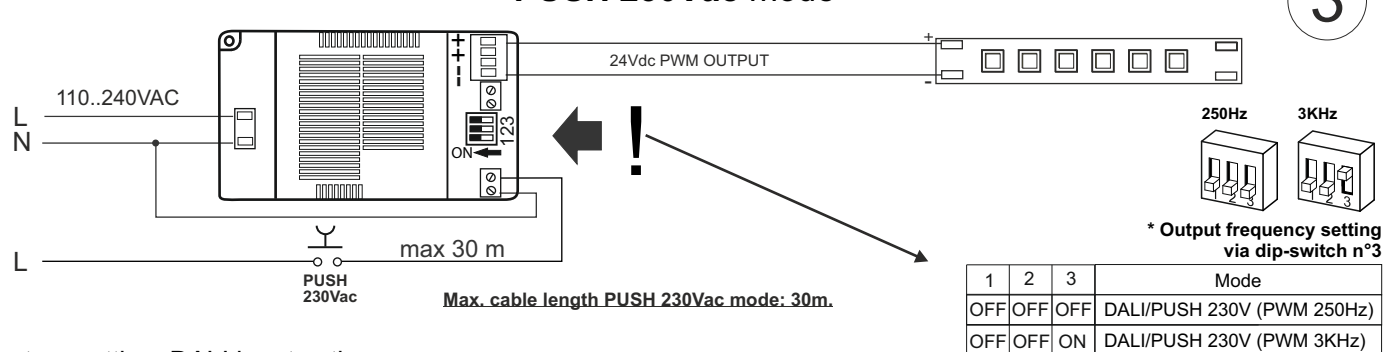
#### ON/OFF mode



#### PUSH 24Vdc mode



#### PUSH 230Vac mode



Factory setting: DALI input active

**Button input setting:** When the PUSH-BUTTON is pressed for the first time, the product remains set into PUSH-BUTTON mode (PUSH 230Vac)

#### Warnings:

1. Always pay attention to the polarity of the secondary cable.
2. Put the system far away from heat sources and in well aerated places.
3. Minimum distance from LED: 10cm.
4. Thermal protection: if the temperature exceeds the limit values, the driver switches OFF and, after few seconds, it switches ON again.
5. Avoid short circuit on the secondary side and give tension only after all LEDs have been connected.
6. Lock the terminals carefully and do not with excessive power.
7. LEDs connection: use a 0,5...1,5mmq cable for a maximum length of 10m; use a 2,5mmq cable for lengths: 10-30m.
8. Input wiring: use a cable 2 x0,75 mmq minimum.
9. **HEAVY USE:** the load must be lower than the maximum indicated by 10% to 20% for all kinds of devices.
10. Check the maximum working temperature at Tc point.

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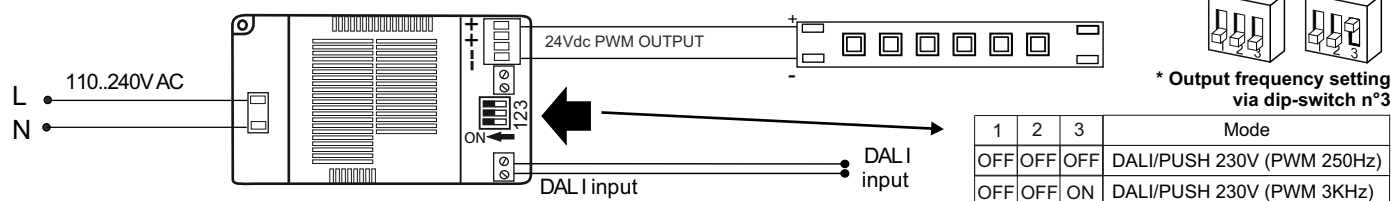
### SYNCHRONIZATION OF MULTIPLE POWER SUPPLIES

#### DALI mode



Factory setting: DALI input active.

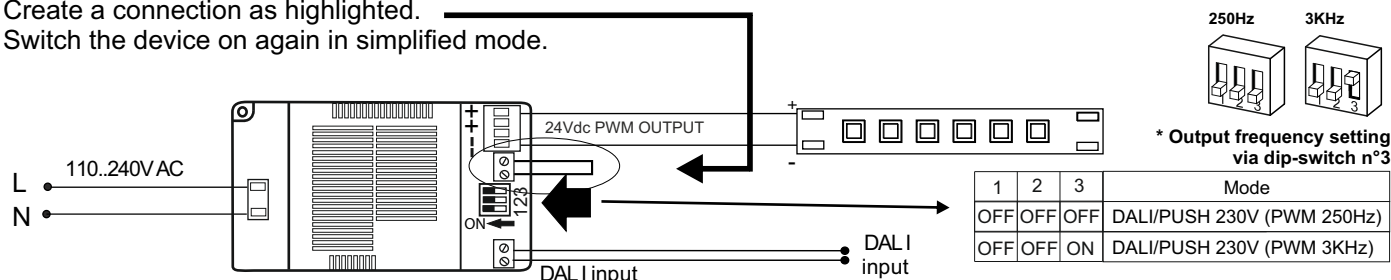
**DALI setting:** The first time a DALI signal is received, the product remains set to receive DALI signals.



#### Simplified DALI mode (“ED” function)

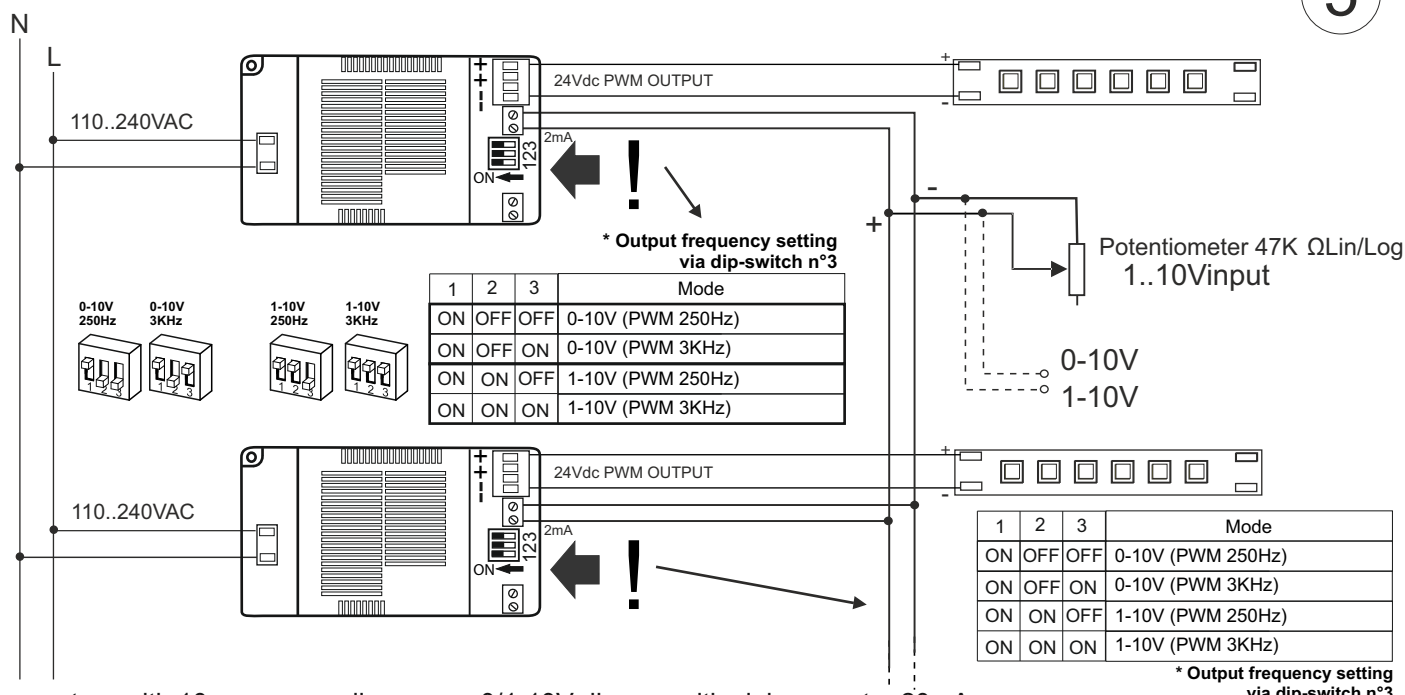
In case of problems with DALI home automation systems, DALI1 systems, reporting of non-existent faults or in case of load different from standard LED strips, for example LED bulbs some functions can be excluded by communicating with the master in a simplified way and avoiding problems.

- 1) Turn off the device, set the dip switches to DALI mode ( OFF-OFF ).
- 2) Create a connection as highlighted.
- 3) Switch the device on again in simplified mode.



#### 0-10V / 1-10V mode

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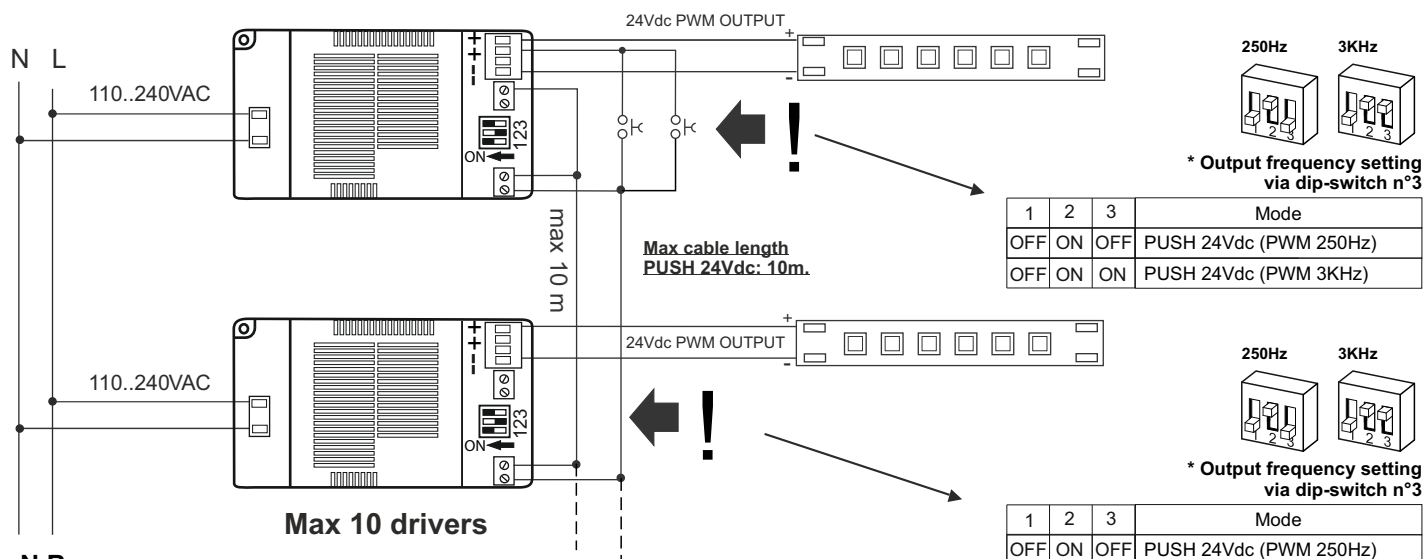
In a system with 10 power supplies, use a 0/1-10V dimmer with sink current >20mA  
In a system with 20 power supplies, use a 0/1-10V dimmer with sink current >40mA

**0-10V and 1-10V setting:** Remove voltage to change Dip-Switch settings.  
Set the Dip-Switches as shown in the figure.

## SYNCHRONIZATION OF MULTIPLE POWER SUPPLIES

### PUSH 24Vdc and SYNCHRO by CABLE mode

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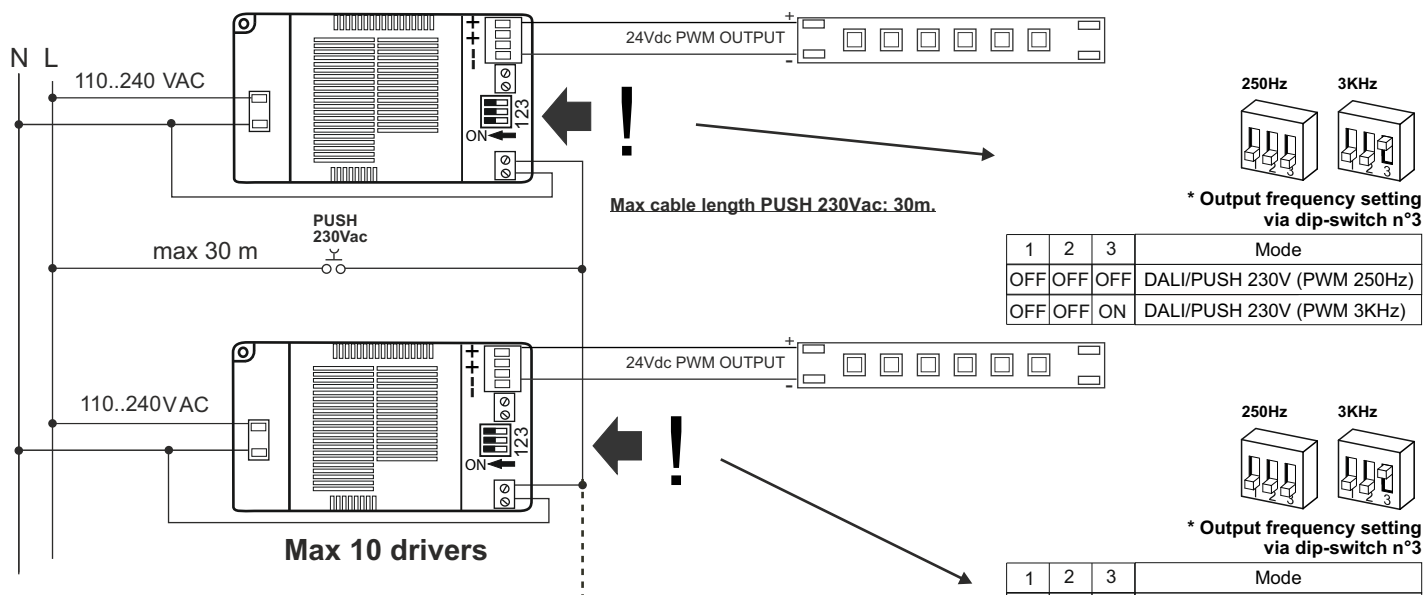


#### N.B.

If the power supplies lose synchronization, by pressing and holding the button for more than 10 seconds, they will resynchronize at the maximum light level.

### PUSH 230Vac and SYNCHRO by CABLE mode

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Factory setting: DALI input active

**Button input setting:** When the BUTTON is pressed for the first time, the product remains set to PUSH mode (PUSH 230Vac).

#### N.B.

If the power supplies lose synchronization, by pressing and holding the button for more than 10 seconds, they will resynchronize at the maximum light level.