

# USER GUIDE

2023 Version



## LE7548DP, LE10048DP, LE15048DP

Dimmable constant voltage LED drivers



www.lef-lighting.it

### General Characteristics

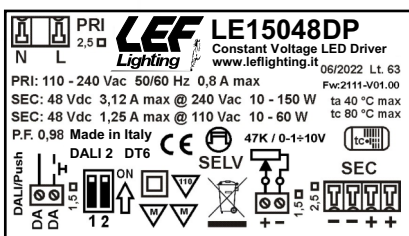
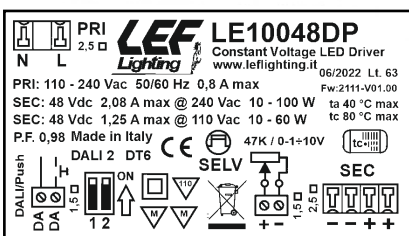
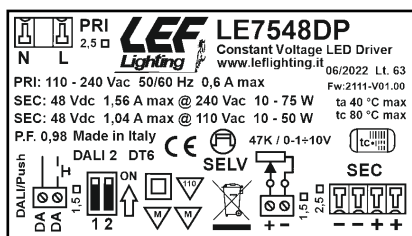
Plastic case  
Driver for independent mounting  
Electric class protection II  
Protection degree IP20

1	2	Mode
OFF	OFF	DALI / PUSH 230 Vac
OFF	ON	PUSH 48Vdc
ON	OFF	0-10V
ON	ON	1-10V

Mode

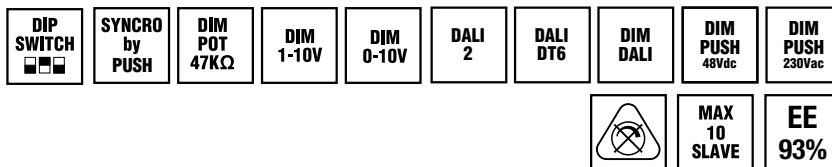


ON →

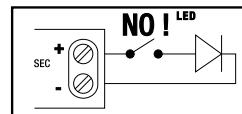


CODICE CODE	Tensione di ingresso Input voltage (Vac)	Frequenza di rete Input frequency (Hz)	Potenza di uscita Output power (W)				Comando Command	Tensione di uscita Output voltage (Vdc)	Corrente di uscita Output current (mA)		PFC (λ)	CC CV	Peso Weight (g)
			@110V		@230V				@110V	@230V			
			MIN	MAX	MIN	MAX							
LE7548DP	110-240	50÷60	10	50	10	75	PUSH   DALI   0-10V 1-10V   POT47KΩ	48	1040	1520	0,98	CV	330
LE10048DP				60		100			1250	2080			330
LE15048DP						150				3120			360

### Technical Features



Input voltage range 110-240Vac  
Input frequency 50÷60Hz  
Constant voltage output 48Vdc  
Minimum output power 10W@230Vac (10W@110Vac)  
Brightness adjustment through:  
- push-button (PUSH 230Vac)  
- push-button (PUSH 48Vdc)  
- DALI signal  
- 0-10V signal  
- 1-10V signal  
- 47Kohm potentiometer  
(setting by dip-switch)  
Factory setting: DALI input active.  
«LEVEL MEMORY» and «STATUS MEMORY» function  
Synchronization of multiple power supplies via cable (max 10)  
Energy Efficiency (EE) 91% (LE7548DP, LE10048DP)  
Energy Efficiency (EE) 93% (LE15048DP)  
Open circuit protection (OCP)  
Protection against overtemperature (OTP)  
Short circuit protection (SCP)  
Power factor correction (PFC)  $\lambda \geq 0,98$   
Operating ambient temperature  $T_a$  -10°C ÷ +40°C  
Max case temperature on  $T_c$  80°C



N.B.

Device not suitable for  
no-load operation.

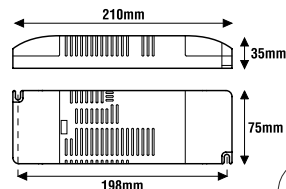
#### ATTENTION:

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.

### Reference Standards

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

MADE IN ITALY



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



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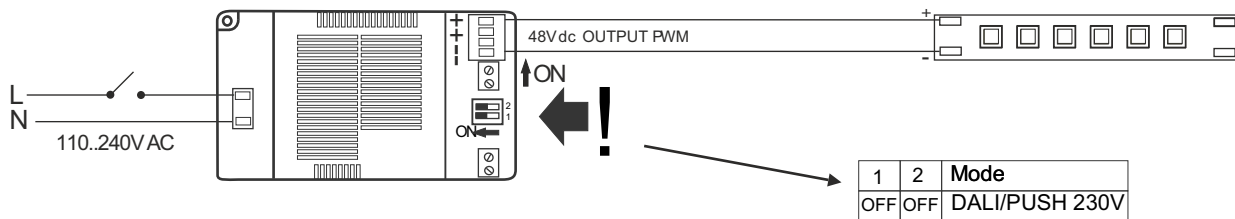
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## CONNECTION OF A SINGLE POWER SUPPLY

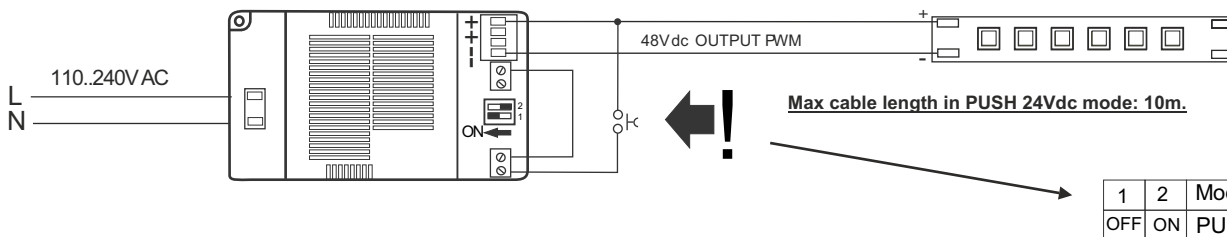
### ON/OFF Mode

1



### PUSH 24Vdc Mode

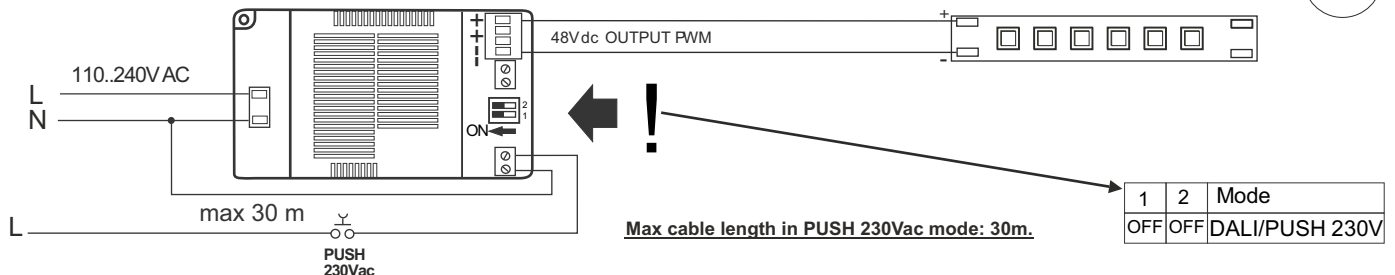
2



**Push-button setting:** Remove power in order to to change Dip-Switch setting.  
Set the Dip-Switch configuration as in the table on the right.

### PUSH 230Vac Mode

3



**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 x 0,75 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.

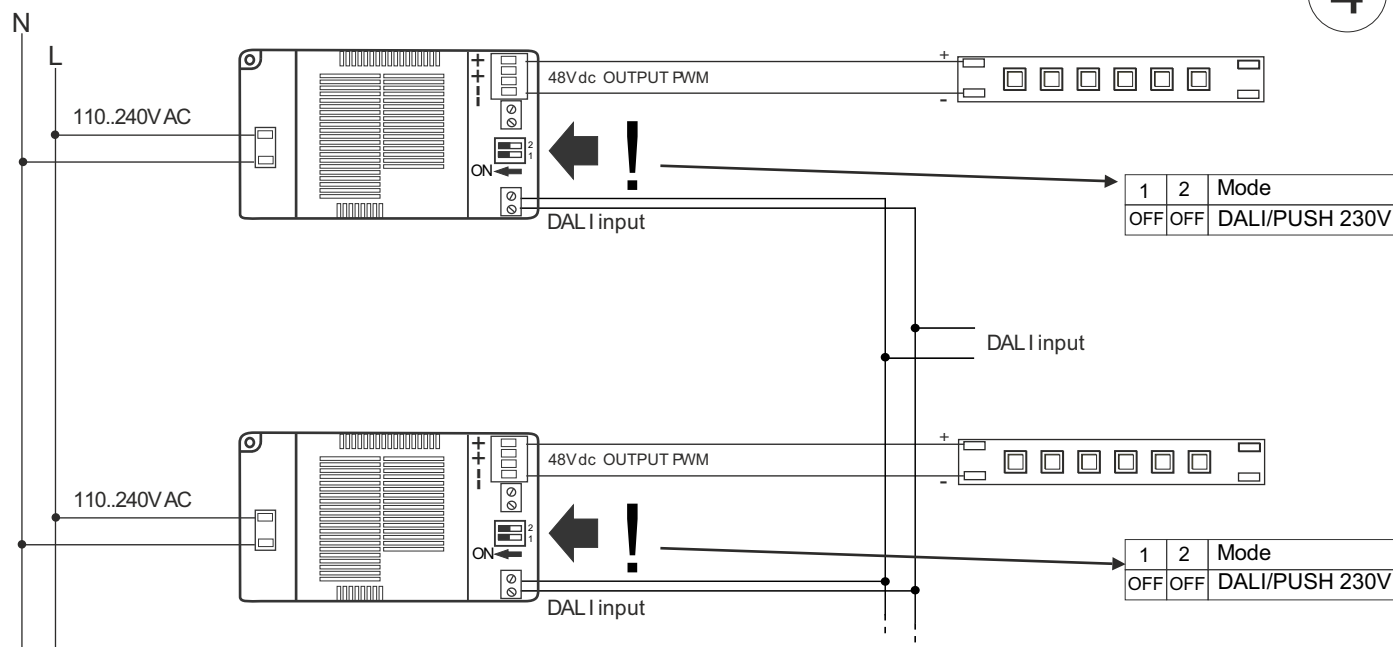
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## SYNCHRONIZATION OF MULTIPLE POWER SUPPLIES

### DALI mode

4



**Factory setting:** DALI input active.

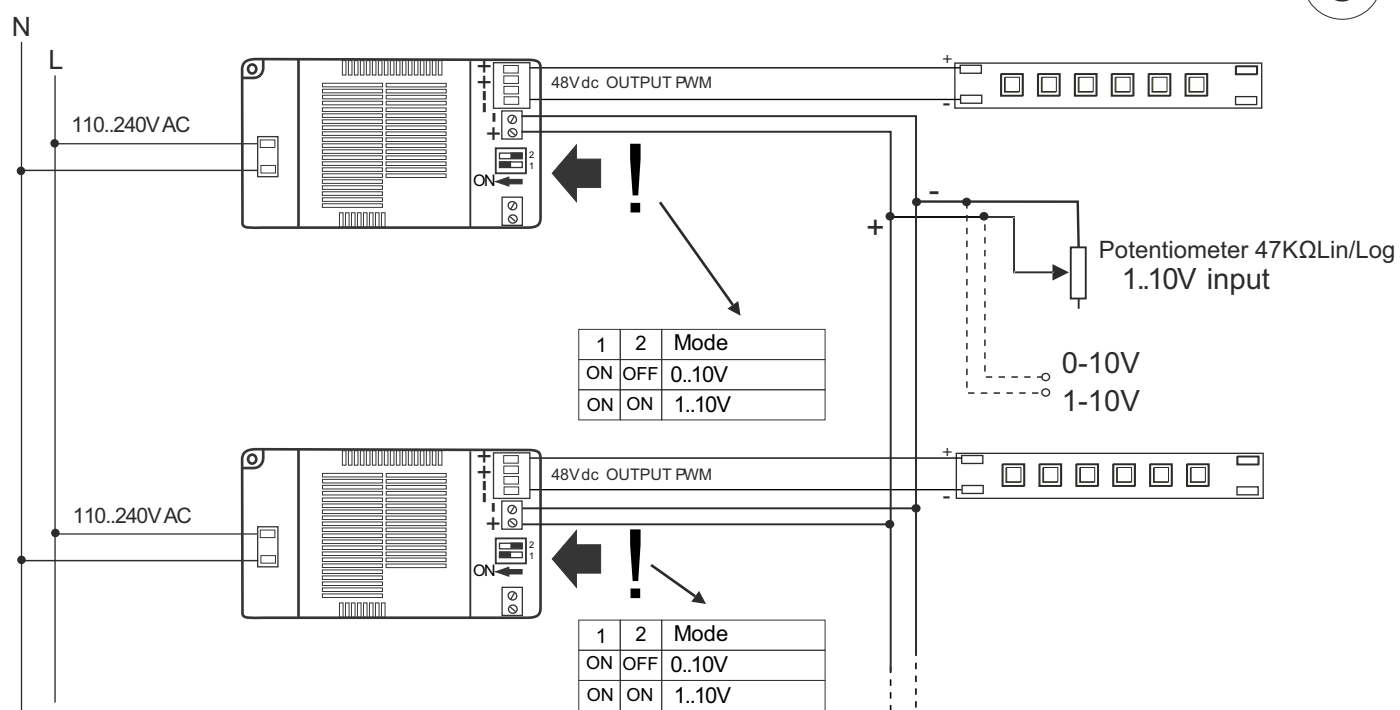
**DALI setting:** The first time a DALI signal is received, the product remains set to receive DALI signals.

DALI 2

DALI DT6

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

5



**0-10V and 1-10V setting:** Remove power in order to change Dip-Switch setting. Set the Dip-Switch configuration as in the above present table.

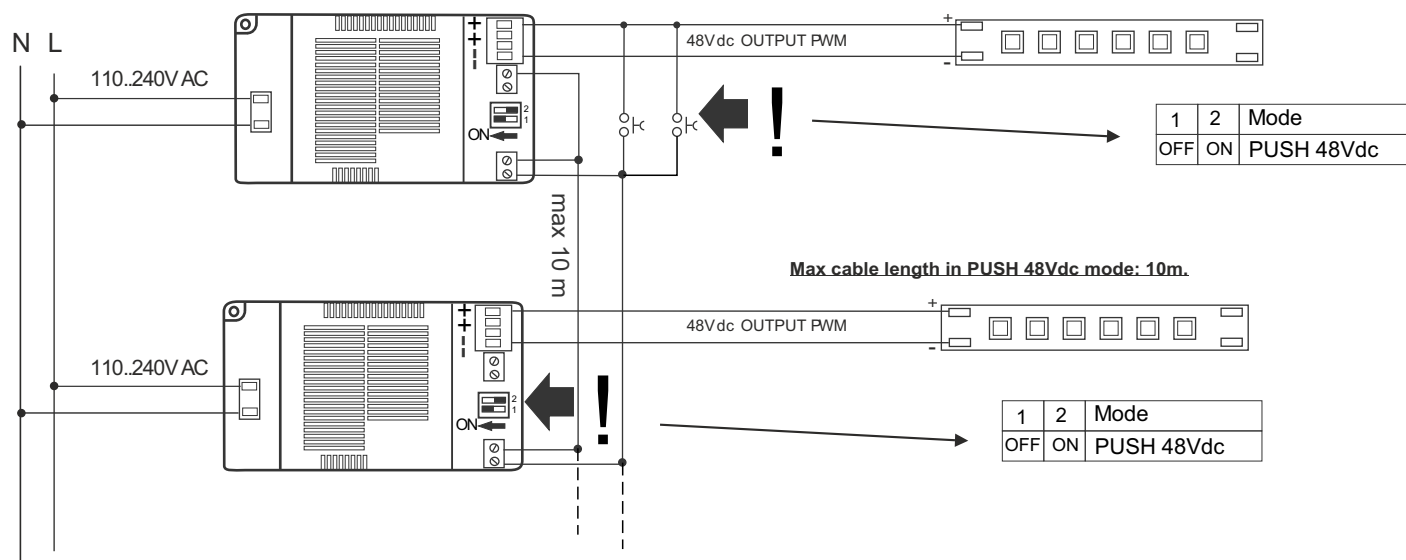
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## SYNCHRONIZATION OF MULTIPLE POWER SUPPLIES

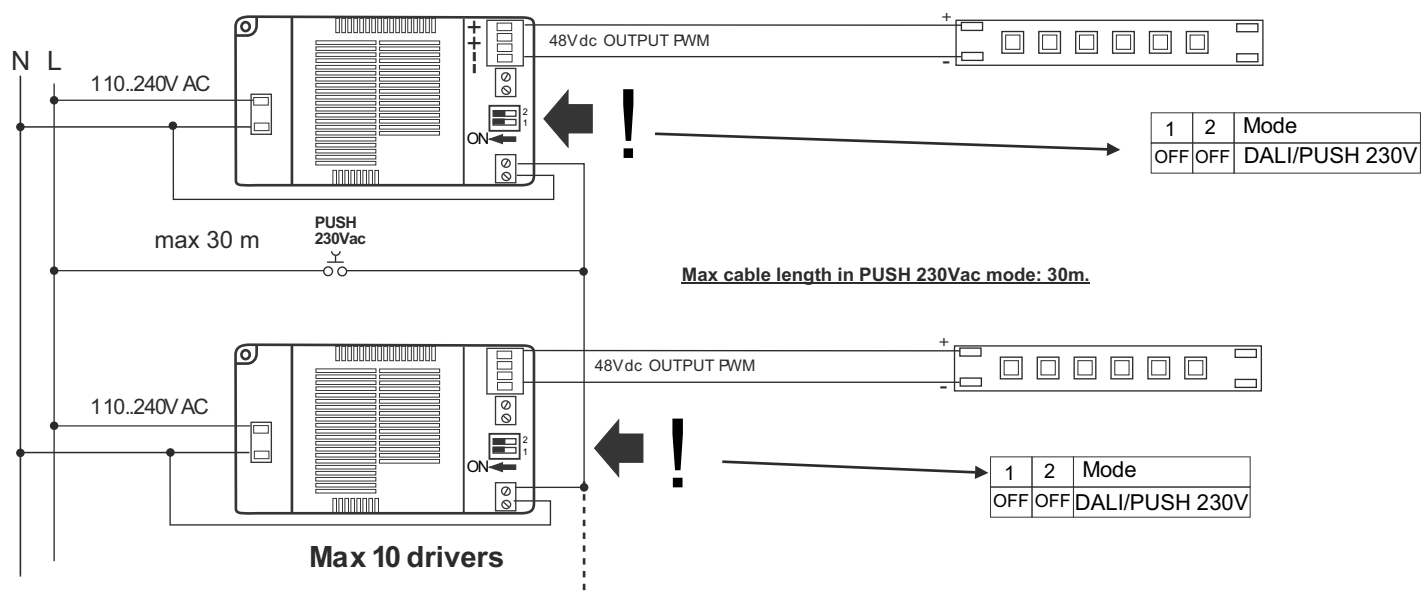
### PUSH 48Vdc and SYNCHRO by CABLE

6



### PUSH 230Vac and SYNCHRO by CABLE Mode

7



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)

**N.B.**

If the power supplies lose synchronization, press the button > 10sec continuously and the power supplies will re-synchronize.