

USER GUIDE

LEMC7524SLIMD-TW | LEMC10024SLIMD-TW LEMC15024SLIMD-TW



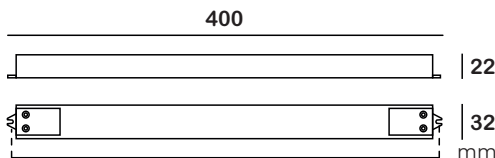
Power supply for TW LED Strip constant voltage (CV)
with push-button, DALI 2 DT8 signal control IP20



www.lef-lighting.it

General Characteristics

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



Psb
0,5W

EE
91%

DIM
PUSH
230Vac

SINCRO
BY
PUSH

MAX
5
DRIVER

DALI
2

DALI
DT8

DIM
DALI

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)	Peso Weight (g)
LE7524SLIMD-TW	220-240	50÷60	75	PUSH DALI	24	3125	0,95	205
LE10024SLIMD-TW			100			4170		230
LE15024SLIMD-TW			150			6250		255

Technical Features

Input voltage range 220-240Vac

Input frequency 50÷60Hz

Input voltage range 176-280Vdc

Input frequency 0Hz

Constant voltage output 24Vdc

Brightness controller for Tunable White 24Vdc LED Strip

(With common positive)

2-channel control unit (TW)

Command through:

- push-button 1 (PUSH 230Vac) (ON/OFF/Dimmer)

- push-button 2 (PUSH 230Vac) (Color temperature control)

- DALI signal

«LEVEL MEMORY» and «STATUS MEMORY» function

Synchronization of multiple power supplies via cable (max 5)

Energy Efficiency (EE):

- 90% (LE7524SLIMD-TW | LE10024SLIMD-TW)

- 91% (LE15024SLIMD-TW)

Open circuit protection (OCP)

Overload protection (OLP)

Protection against overtemperature (OTP)

Short circuit protection (SCP)

Power factor correction (PFC) $\lambda \geq 0,95$

Operating ambient temperature Ta:

- -20°C ÷ +50°C (LE7524SLIMD-TW | LE10024SLIMD-TW)

- -20°C ÷ +45°C (LE15024SLIMD-TW)

Max case temperature on Tc:

80°C (LE7524SLIMD-TW)

85°C (LE10024SLIMD-TW)

90°C (LE15024SLIMD-TW)

Reference standards

EN 55015

EN 61000-3-2

EN 61000-3-3

EN 61347-1

EN 61347-2-13

EN 61547

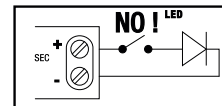
EN 62384

EN 62386-101

EN 62386-102

EN 62386-207

EN 62386-209



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.



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

MADE IN P.R.C.



LEF LIGHTING S.R.L. www.lef-lighting.it

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PUSH 230Vac mode

1



Connect a DIODE V_{Rated} ≥ 280V_{rms} (1N4004 ÷ 1N4007) in series with BUTTON P2.
(This 1N4004 ÷ 1N4007 diode is included in the product package)

Maximum cable length of PUSH BUTTON: 20m

DIM
PUSH
230Vac

Operation of BUTTON P1 (ON/OFF/Dimming)

- **Short press** (<1 sec) **P1 BUTTON** to switch the light on (ON) and off (OFF).
- **Long press** **P1 BUTTON** to dim the light.
Press and hold the button again to reverse the dimming direction.
- **If the LED driver power supply is switched off**, The dimming value set on the driver will be stored and reset when the driver power supply is reactivated.

Operation of BUTTON P2

(Connect diode 1N4004 ÷ 1N4007 in series to the button)

- **Short press (<1 sec) P2 BUTTON** : cycle through the 9 preset colour temperatures.
The time between presses must be longer than 1 second.
- **Long pressure P2 BUTTON**: By holding down button P2 for more than 1 second, the colour temperature begins to gradually change towards the preset maximum value. To reverse the direction of change, release the button and press it again: after 1 second, the change will resume in the opposite direction.
- **If the LED driver power supply is switched off**, The colour temperature of the light set on the driver will be stored and reset when the driver power supply is reactivated.

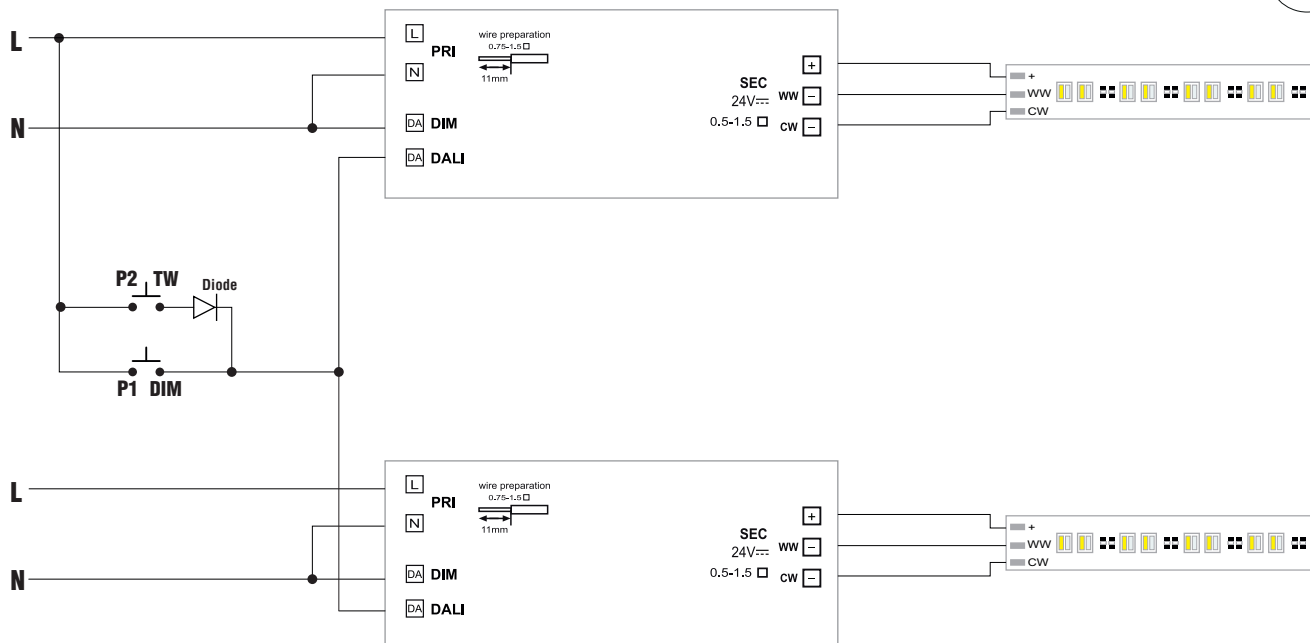
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PUSH 230Vac and SYNCRO by CABLE mode

2



Connect a DIODE VRated $\geq 280V_{rms}$ (1N4004 ÷ 1N4007) in series with BUTTON P2.
(This 1N4004 ÷ 1N4007 diode is included in the product package)

Synchronisation procedure

By holding down the P1 button for 15 seconds with the light off, the power supplies will synchronise to 50% brightness.
By holding down the P2 button for 15 seconds, all LED drivers connected to the system will change the light colour temperature to 3000K.

Maximum number of synchronisable power supplies: 5
Maximum cable length of PUSH BUTTON: 20m



Operation of BUTTON P1 (ON/OFF/Dimming)

- **Short press** (<1 sec) **P1 BUTTON** to switch the light on (ON) and off (OFF).
- **Long press** **P1 BUTTON** to dim the light.
Press and hold the button again to reverse the dimming direction.
- **If the LED driver power supply is switched off**, The dimming value set on the driver will be stored and reset when the driver power supply is reactivated.

Operation of BUTTON P2

(Connect diode 1N4004 ÷ 1N4007 in series to the button).

- **Short press** (<1 sec) **P2 BUTTON** : cycle through the 9 preset colour temperatures.
The time between presses must be longer than 1 second.
- **Long pressure** **P2 BUTTON**: By holding down button P2 for more than 1 second, the colour temperature begins to gradually change towards the preset maximum value. To reverse the direction of change, release the button and press it again: after 1 second, the change will resume in the opposite direction.
- **If the LED driver power supply is switched off**, The colour temperature of the light set on the driver will be stored and reset when the driver power supply is reactivated.

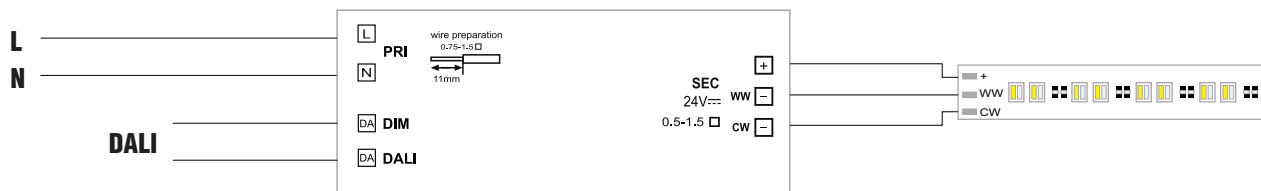
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DALI mode

3

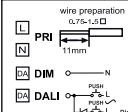


In this mode, the power supply is controlled via a DALI signal.
The DALI signal must be of the DALI2 DT8 type.

DIM
DALI





DALI
2

DALI
DT8





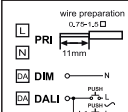
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TW Constant Voltage LED Driver
PUSH | DALI2 DT8 Dimmable

SELV     DALI2 DT8 Made in P.R.C.





LE7524SLIMD-TW
PRI: 220-240V~ 50/60Hz 0.5A
SEC: 24V~ 3.125A, Max.75W
 λ : 0.95
ta: -20...50°C tc: 80°C

SEC
24V~  WW
0.5-1.5  CW






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TW Constant Voltage LED Driver
PUSH | DALI2 DT8 Dimmable

SELV     DALI2 DT8 Made in P.R.C.





LE10024SLIMD-TW
PRI: 220-240V~ 50/60Hz 0.55A
SEC: 24V~ 4.17A, Max.100W
 λ : 0.95
ta: -20...50°C tc: 85°C

SEC
24V~  WW
0.5-1.5  CW





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TW Constant Voltage LED Driver
PUSH | DALI2 DT8 Dimmable

SELV     DALI2 DT8 Made in P.R.C.

LE15024SLIMD-TW
PRI: 220-240V~ 50/60Hz 1A
SEC: 24V~ 6.25A, Max.150W
 λ : 0.95
ta: -20...45°C tc: 90°C

SEC
24V~  WW
0.5-1.5  CW