

# USER GUIDE

## LE1835TF, LE1850TF, LE1870TF

Phase-cut dimmable constant current (CC) LED drivers



### General Characteristics



www.lef Lighting.it

Plastic case

Driver for independent mounting

Electric class protection II

Protection degree IP20

SEC 350mA Umax=52V 0,5-2,50

**LE1835TF**

Dimmable with leading edge or trailing edge dimmer

**LEF Lighting**

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PRI: 220-240V~ 50/60Hz 0.11A  
SEC: 350mA, 26-52V~, Max.18W  
 $\lambda$ : 0.95  $t_a$ =45°C  $t_c$ =80°C

CE, SELV, MADE IN P.R.C.

220-240V~ PRI 0,75-2,50

SEC 500mA Umax=47V 0,5-2,50

**LE1850TF**

Dimmable with leading edge or trailing edge dimmer

**LEF Lighting**

www.lef Lighting.it

PRI: 220-240V~ 50/60Hz 0.11A  
SEC: 500mA, 18-36V~, Max.18W  
 $\lambda$ : 0.95  $t_a$ =45°C  $t_c$ =80°C

CE, SELV, MADE IN P.R.C.

220-240V~ PRI 0,75-2,50

SEC 700mA Umax=40V 0,5-2,50

**LE1870TF**

Dimmable with leading edge or trailing edge dimmer

**LEF Lighting**

www.lef Lighting.it

PRI: 220-240V~ 50/60Hz 0.11A  
SEC: 700mA, 13-26V~, Max.18W  
 $\lambda$ : 0.95  $t_a$ =45°C  $t_c$ =80°C

CE, SELV, MADE IN P.R.C.

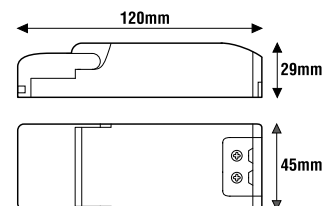
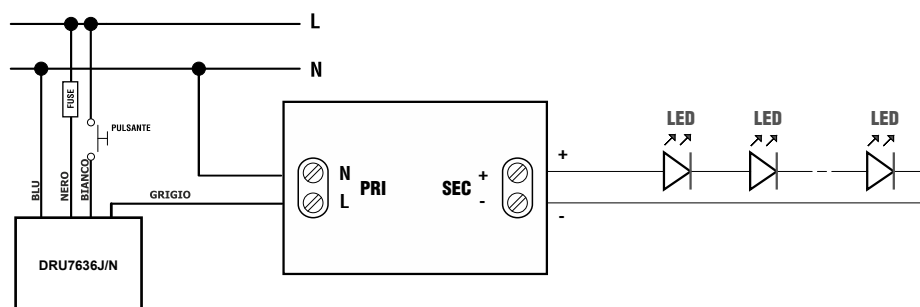
220-240V~ PRI 0,75-2,50

**Dimmerazione a Taglio di Fase discendente (a fine fase) IGBT Trailing Edge**  
Descending Phase Cutting dimming (at the end of the phase) IGBT Trailing Edge

**Dimmerazione a Taglio di Fase ascendente (a inizio fase) TRIAC Leading Edge**  
Ascending Phase Cutting dimming (at the beginning of the phase) TRIAC Leading Edge

CODICE CODE	Tensione di ingresso Input voltage (Vac)	Frequenza di rete Input frequency (Hz)	Potenza di uscita Output power (W)		N°LED MIN - MAX	Tensione di uscita Output voltage (Vdc)	Corrente di uscita Output current (mA)	PFC ( $\lambda$ )	CC CV	Peso Weight (g)
			MIN	MAX						
LE1835TF	220-240	50÷60	9,1	18,2	8-14	26-52	350	0,95	CC	100
LE1850TF			9	18	6-10	18-36	500			
LE1870TF			9,1	18,2	4-7	13-26	700			

### Wiring diagram



### Technical Features

Input voltage range 220-240Vac

Input frequency 50÷60Hz

Constant current output 350mA (LE1835TF)

Constant current output 500mA (LE1850TF)

Constant current output 700mA (LE1870TF)

Phase-cut dimmable with mode:

- TRIAC Leading-Edge

- IGBT Trailing-Edge

Energy Efficiency (EE):

- 83% (LE1835TF, LE1850TF)

- 80% (LE1870TF)

Open circuit Protection (OCP)

Overload protection (OLP)

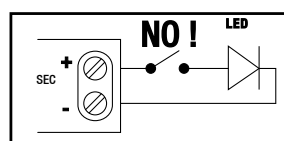
Protection against overtemperature (OTP)

Short circuit protection (SCP)

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

Operating ambient temperature  $T_a$  -20°C ÷ +45°C

Max case temperature on  $T_c$  80°C



### 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.

### Reference Standards

EN 55015  
EN 61000-3-2  
EN 61347-1  
EN 61347-2-13  
EN 61547  
EN 62894

MADE IN P.R.C.



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