

ELEMNT LD 8/220-240/180

180mA Constant Current LED Power Supply

1. Technical Data

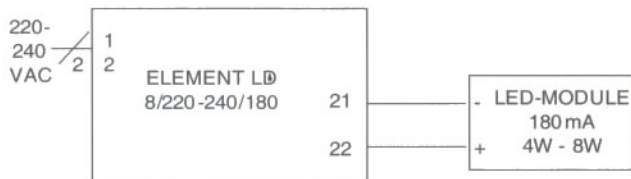
Nominal Voltage	220 – 240 Vac
Input Voltage	198 – 264 Vac
Line Current, nominal	Refer to table 1
Mains Frequency	50 / 60 Hz
Maximum Output Voltage	60 Vdc

Ambient Temperature	Refer to table 1
Max. Case Temperature at tc	+70°C
Max. Output Cable Length	2m
IP Rating	IP 20
Power Factor	0.82 @ 230 Vac

I_{out} (mA)	180
U min [V]	21
U max [V]	42
P min [W]	4
P max [W]	8
T_a [°C]	50
T_c [°C]	70
Line Current, nominal@230V mA	60
Max Power Loss@230V [W]	1.5
Input Power @230V [W]	9.3

2. Connection Schemes

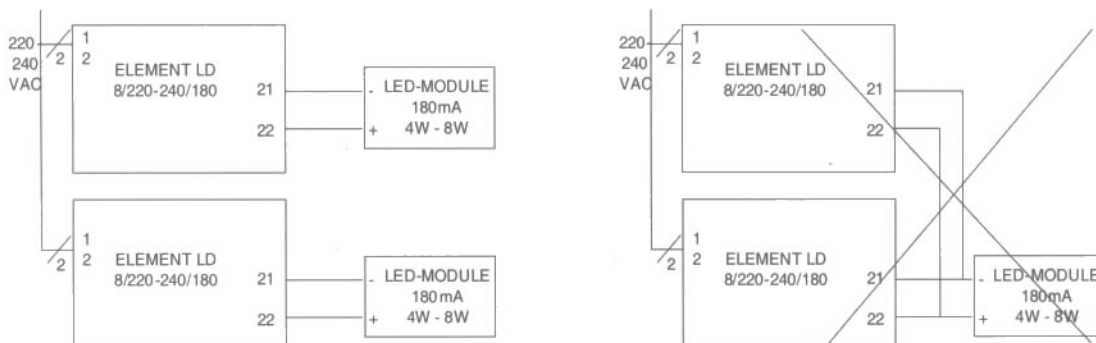
2.1 Connection of LED Modules:



For 180mA LED module:
Connect to 21 and 22

Modules have to correspond with OT's rated values.

2.2 Parallel Connection on the secondary side is not allowed



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3. Wire and Connection

- Ensure that the LED module load is within the range of rated voltage, current and power supply (see Technical data)
- Maximum output cable length is limited by EMI and cross diameter.
- The luminaire manufacturer is responsible for providing the required clearance and creepage distances and also for the protection against electrical shock, especially for the line and load wires.
- Wiring Preparation:

Wire preparation (Push in)	
Built in	Independent
s: 0.5 - 1.5 [□]	0.75 - 1.5 [□]
f: 0.75 - 1.5 [□]	



4. Earth Connection

- ELEMENT LD 8/220-240/180 is a "Protection Class II" power supply; therefore ground connection is not required.

5. Mounting and Environmental protection

- The control gear is for both built in and independent installation; proper cables have to be used.
- Maximum permissible ambient temperature must not be exceeded. Make sure there is adequate space to avoid a build-up of heat. In critical installations the temperature at tc has to be controlled.

6. General note

- Power supplies must be installed by a qualified electrician
- Disconnected from mains supply before work
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.



Proper and safety usage and installation of the product shall comply to product datasheet and OPTOTRONIC Technical guide. Refer to the latest guides versions available at www.osram.com



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