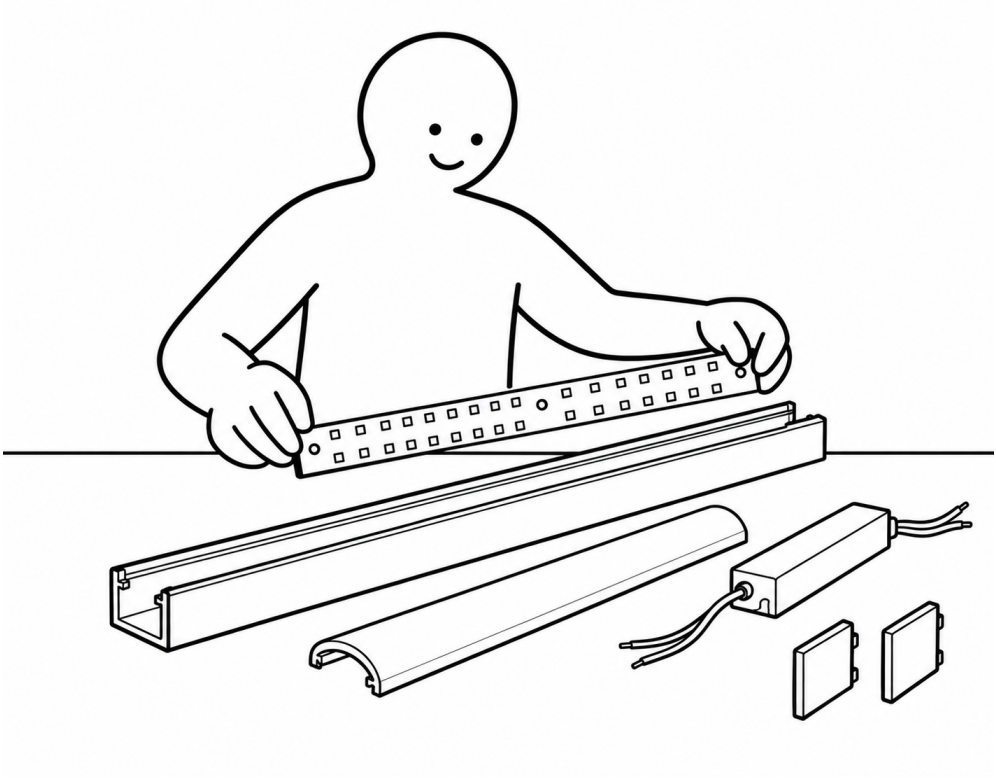
LED MODULE
CONSTANT VOLTAGE

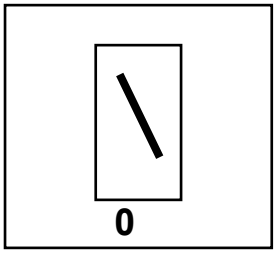
Assembly guide



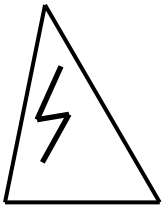
lmw.com.tr

Disconnect power first

Connect and solder only with power disconnected.



OFF



220-240 V AC

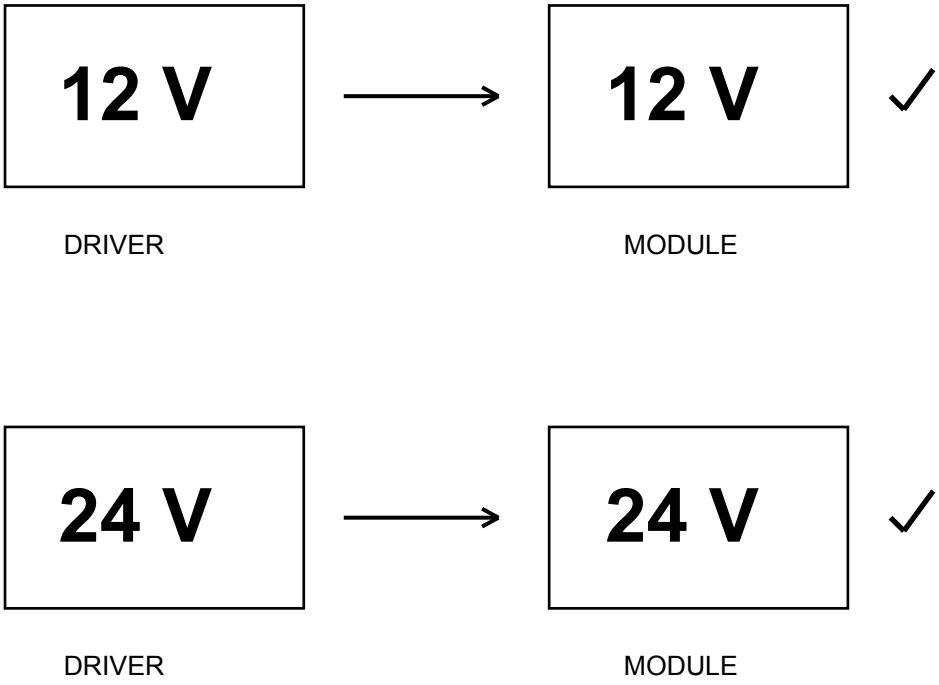
Mains connection: qualified electrician only.

Do not touch the board or terminals while powered.

Complete all connections before switching on.
Do not connect or disconnect LEDs while powered.

Match the voltage

Use the DC voltage on the module label.

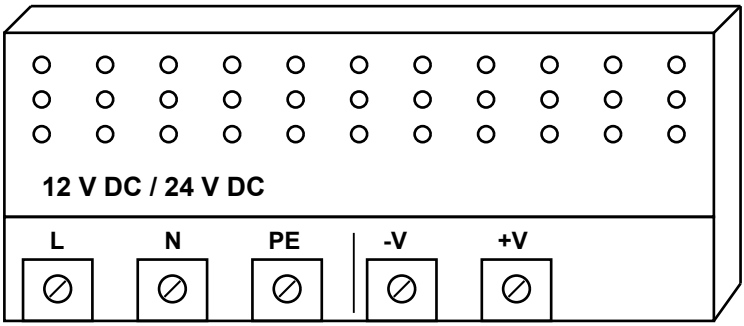


Never connect 24 V to a 12 V module.

Do not use a constant-current driver for a constant-voltage module.

Identify the terminals

Perforated metal power supply / general wiring layout

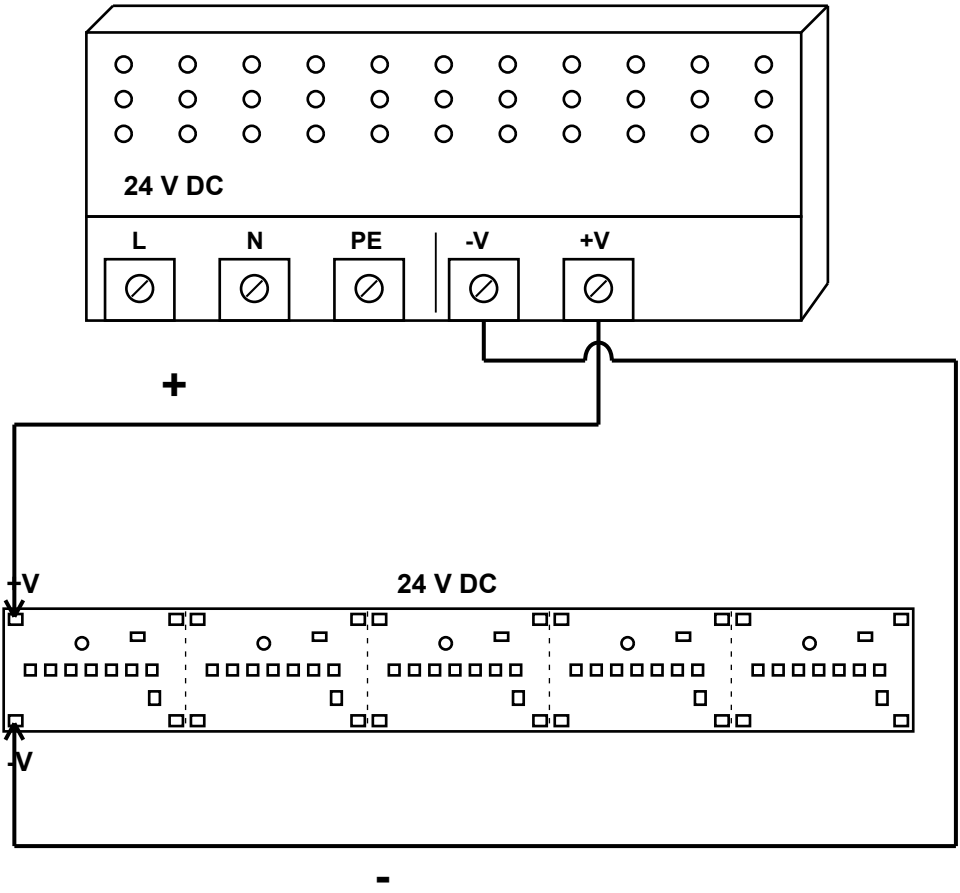


L	N	PE	-V	+V
LIVE	NEUTRAL	EARTH	LED -	LED +
AC INPUT			DC OUTPUT	

Follow the device labels: L, N, earth, -V and +V.
Terminal count and order may vary by model.
V ADJ does not convert a 12 V supply into a 24 V supply.

Connect the module

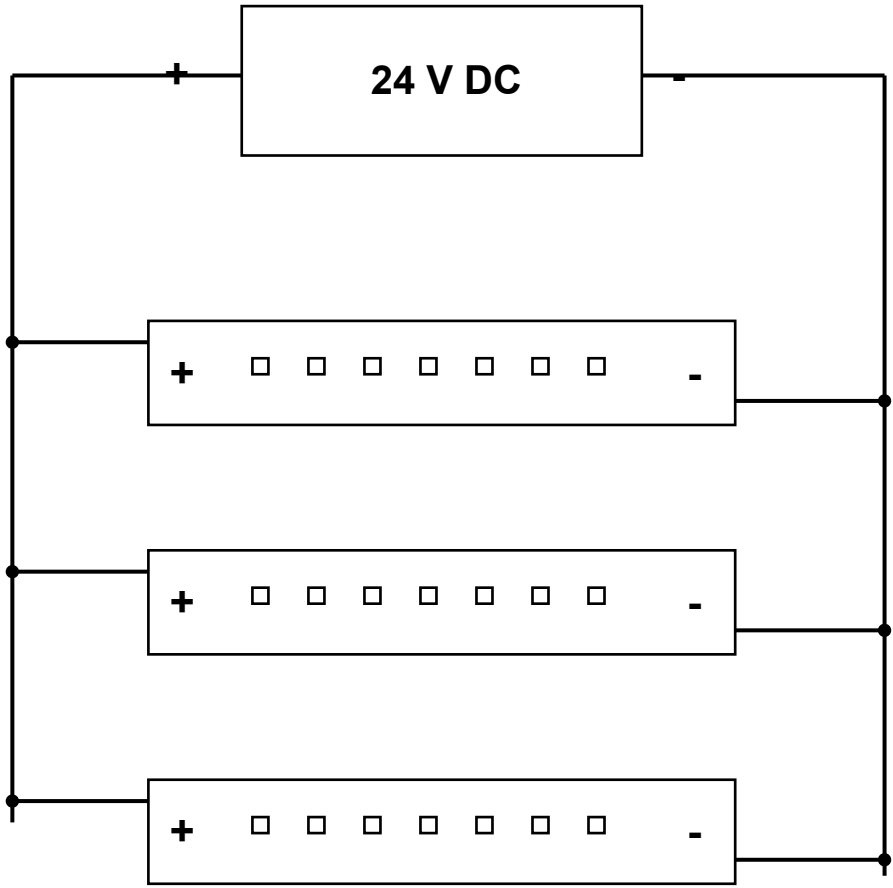
+V → + -V → -



Illustrated module: 24 V DC. Use a suitable 24 V driver.
Do not apply the constant-current board's COM bridge here.

Multiple modules

Connect modules to the driver in parallel.

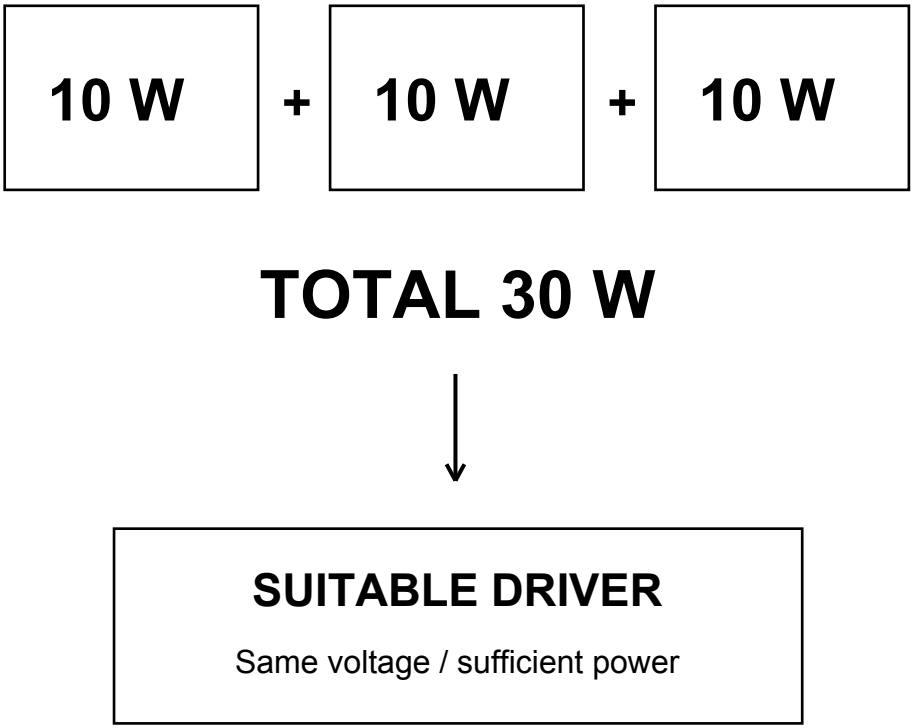


All + terminals to +V; all - terminals to -V.

Each module voltage must match the driver voltage.

Check capacity

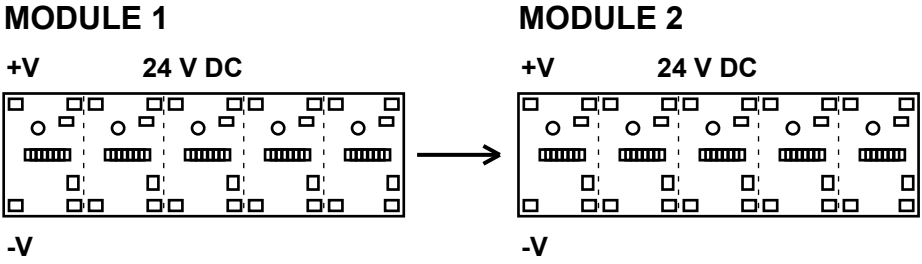
Add up the power of all connected modules.



Example only; use the ratings on your product labels.
Total load must not exceed the driver's allowed power.
Allow for temperature and manufacturer derating conditions.

Join two modules

Disconnect power. Align boards in the same direction.



PARALLEL CONNECTION

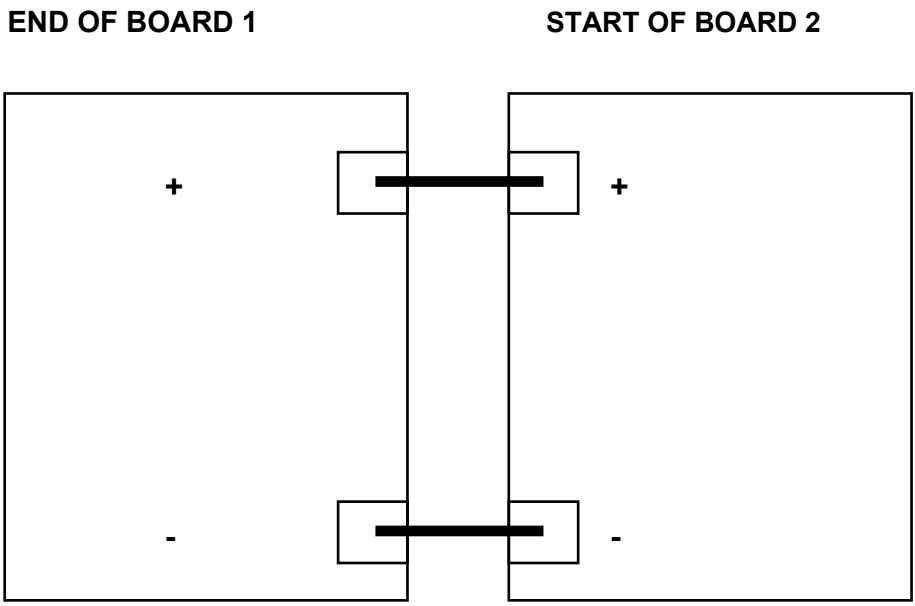
+ → + - → -

12 V + 12 V modules: use a 12 V driver.
24 V + 24 V modules: use a 24 V driver.
Do not join modules of different voltages.

Check total power and line-current limits.
Chain length must stay within the product's allowed limit.

The joint

Enlarged diagram; follow the actual pad markings.

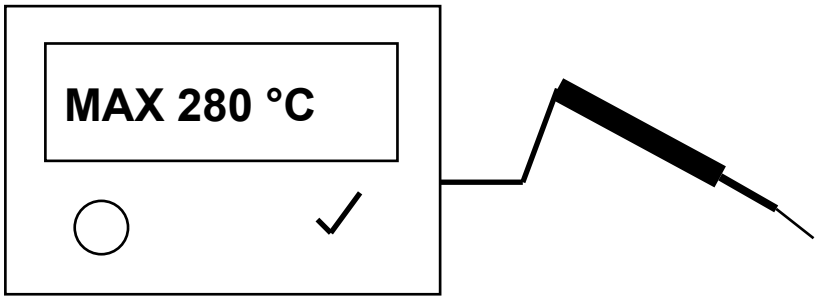


Solder the facing + pads together.
Solder the facing - pads together.

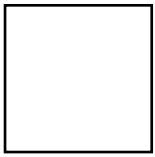
DO NOT BRIDGE + TO -

Temperature-controlled station

Solder only with power disconnected.



SOLDERING STATION



3 × 3 mm

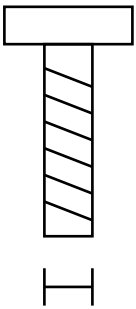
Typical pad size

Do not use a plug-in iron without temperature control.
Do not exceed 280 °C; never solder at 400 °C.
Do not heat for too long, press or pull the pad.

Excess heat lifts and peels copper pads.

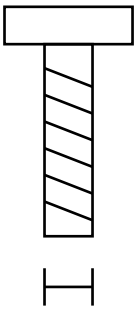
Use suitable screws

Screw shank diameter: maximum 3 mm.



Ø ≤ 3 mm

✓



Ø > 3 mm

✗

Use only the existing mounting holes.

Do not force or enlarge the holes.

Screw heads must not touch pads or copper tracks.

Do not tighten enough to crack the board.

Final check

Apply power only after all checks are complete.

☐ **12 V / 24 V**

Driver and all modules have the same voltage.

☐ **+ / -**

Correct polarity; modules connected in parallel.

☐ **POWER**

Total load is within driver capacity.

☐ **MOUNTING**

Earthing, insulation and ventilation are complete.



ON

If unlit: disconnect power and check connections.

lmw.com.tr

Safety instructions

1

Do not strain modules or components. Avoid excessive force during screw fastening and assembly. Do not apply heavy loads; protect PCB conductive tracks.

2

Keep LED modules away from chemicals during assembly and storage.

Safety instructions



Do not stack modules without protective separator sheets during storage.



Take electrostatic discharge (ESD) precautions during assembly.



Store and operate LED modules at 10-60% relative humidity.

Safety instructions

6

Choose power supplies with short-circuit, overload and overtemperature protection.

7

It is recommended that only qualified personnel connect modules to the power supply.

Technical support

Contact us for technical support.

lmw.com.tr

info@lmw.com.tr

+90 850 308 34 06