

## Power Supplies

To select the correct power supply for your job calculate the number of LED modules in your sign and add together the watts used by each to get a total.

**You should only use 80% of the full power capacity of the power supply.**

In the table below the actual wattage is shown as well as the calculated wattage which incorporates the 80% margin.

| Module Type | MDP Code | Actual W | Calc W |
|-------------|----------|----------|--------|
| Single LED  | MLD00010 | 0.36W    | 0.45W  |
| Double LED  | MLD00020 | 0.72W    | 0.90W  |
| Triple LED  | MLD00030 | 1.08W    | 1.35W  |
| Quad LED    | MLD00040 | 1.44W    | 1.80W  |

### Example

#### 100 Double LED modules

##### Using The Actual Wattage

Actual Wattage  $0.72W \times 100 = 72W$

To calculate the actual Wattage required  $72W \times 1.25 = 90 \text{ Watts}$

##### Using The Calculated Wattage

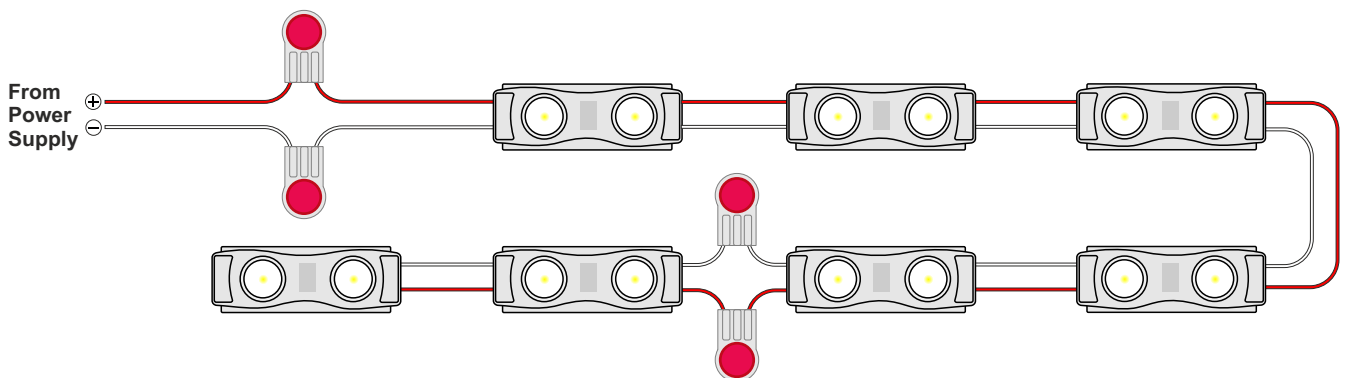
Calculated Wattage  $0.90 \times 100 = 90 \text{ Watts}$

Therefore for 100 double module LEDs use a 100W power supply.

## Wiring

Our LED modules use a 12V power supply. The modules are wired in a daisy chain and come in strings of 20 modules. To connect multiple strings use a Scotchlok connector for each wire set.

Wiring should be done by a competent, proficient member of staff.



Double check that the LED wiring is connected to the **12V side of the power supply**.

**DO NOT** connect LEDs directly to the 240V mains supply.

To reduce fading at the end of a run consider splitting your LED modules into multiple circuits from the power supply.

Go to [www.mdpsupplies.com](http://www.mdpsupplies.com) or come instore to see our full range of supplies for signmakers and garment printers

