

# The Magic System

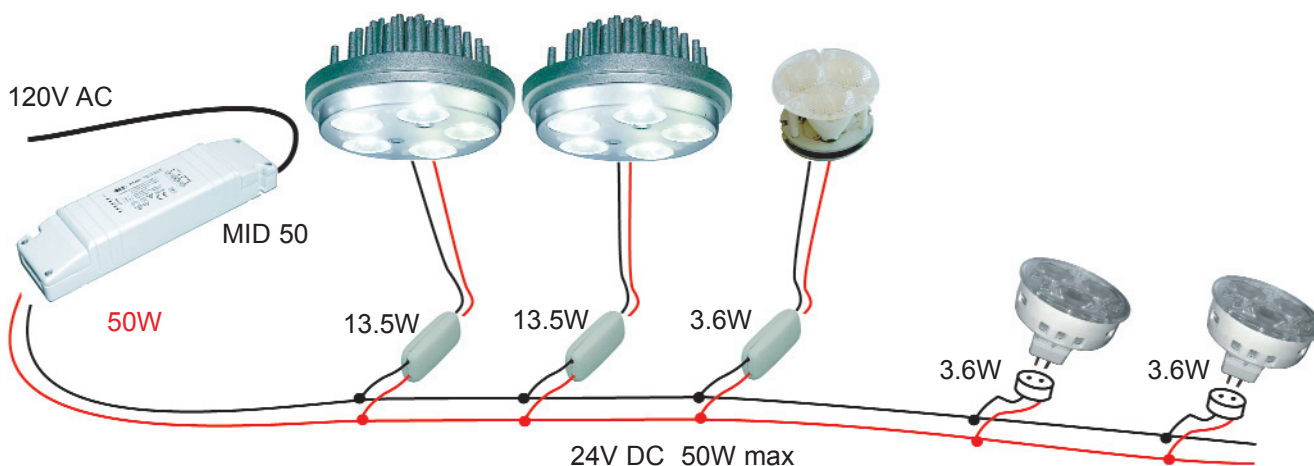
This revolutionary system provides the ability to configure lighting systems with Power LEDs in a simple manner with a minimum number of components.

The system is made up of a constant voltage (24V) driver that is available in different wattages to supply a large quantity of LED modules. Each one is delivered with a small constant voltage/constant current converter. This allows for, what was previously very complex configurations, to be installed with just two buss cables. With these two buss cables, it is then possible to connect up to 6 LED modules together.

It is even possible to connect both 350mA and 700mA modules together on the same line. These connections are possible thanks to new developments in LED modules. Traditional Power LED modules have been configured with a number of LEDs in a series circuit, mounted on a heat-sink, and supplied by an electronic driver. The Power LED modules are usually placed at a certain distance from the driver, in order to prevent the electrical components from suffering temperature stress or reduced life. With the new generation of highly miniaturized electrical components, it is now possible to produce electronic drivers that convert constant voltage into constant current. The converters can be easily installed along the buss cabling and in close proximity to the LED modules themselves. With a driver efficiency of approximately 95%, the converters don't generate heat and do not affect the over-all efficiency of the system.

The images below show the different drivers and LED modules that can be easily installed together. The driver must be of sufficient power to match the size of the load. For every module, the maximum wattage is clearly indicated:

The sum of all the different module's wattages must never exceed the driver's wattage.



$$\boxed{50W} \geq \boxed{13.5W} + \boxed{13.5W} + \boxed{3.6W} + \boxed{3.6W} + \boxed{3.6W} = 37.8W$$

Max output power      U115-DC   +   U115-DC   +   TRIO-DC   +   QLAMP   +   QLAMP