

## Series Micro LED Driver by **GVA** Lighting

LEDs require specialized power converters that deliver constant current output. Most 1W LEDs require 350mA current, the Rigel 0.6W LEDs are designed for 150mA, 2.5W LEDs are driven at 700mA.

MD (MicroDriver) is a low voltage AC/DC to DC converter with preset Constant Current value (350mA, 700mA). The current value is factory adjustable and can be set according to customer's requirements. MD has two models: non-dimmable (MD) and dimmable (MD-DD and MD-AD). MD-DD can respond to push-button (Switch-Dim) and to digital dimming devices like Smart Switch. MD-AD has 0-10V DC analog dimming interface.

MD-DD Micro Drivers are also individually addressable and compatible with DMX protocol. It allows lighting designers to create complex, dynamic lighting effects at custom projects. One driver can drive single or a group of high power LEDs. Depends on quantity of LEDs connected in series the proper input voltage for the driver should be chosen (see charts below).



### Special Features

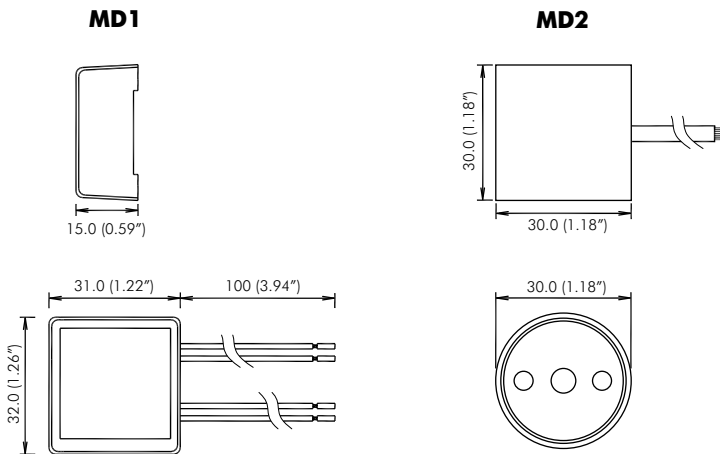
- Universal Input Voltage 6.0 - 24V AC or 6.0 - 30VDC
- Output with Constant Current 350mA or 700mA
- IP66, NEMA4 rated, suitable for dry, damp and wet locations (MD1)
- Conventional cooling
- Efficiency 85%-90%
- Thermal Protection
- Operating Temperatures: -30°C - +60°C
- Five Year Limited Warranty
- Continuous, flicker free dimming from 0% - 100% through Switch-Dim, Digital or Analog (0V-10V DC) interfaces
- Extremely smooth, eye sensitivity optimized dimming curve on the all light levels
- Driver can be individually addressable and DMX compatible with GVA control
- Can be used in conjunction with GVA's day-harvesting control

Q-ty of 1W LEDs connected in series @ 350mA	1	2	3	4	5	6	7
Input Voltage Range Required (VAC or VDC)**	6.0-30.0	10.0-30.0	13.5-30.0	17.5-30.0	21.0-30.0	24.0-30.0	28.0-30.0

\* If forward voltage of one LED  $\leq$  3.5V.

\*\* Max AC voltage 24V, max DC voltage 30V.

### Mechanical Drawing



**MD1** is a potted driver in plastic enclosure.

**MD2** is a potted driver in aluminum enclosure with a M8 threaded mounting hole designed for Gulden LED light fixtures.