

Product datasheet

MYNICE



Backlighting Mini Plus

- M21GX02A (all color)
 - X=W, White
 - X=R, Red
 - X=G, Green
 - X=B, Blue

Areas of application

- Signage and illuminated advertising
- Backlighting of channel letters, best for 25mm to 80mm depth (1 to 3inch)

Product benefits

- Uniform and efficient illumination at high LED pitches thanks to **oval optics** design
- Small module size would be flexible in application
- Significantly better application efficiency compared to systems without lenses
- Long lifetime 5 years warranty

Product features

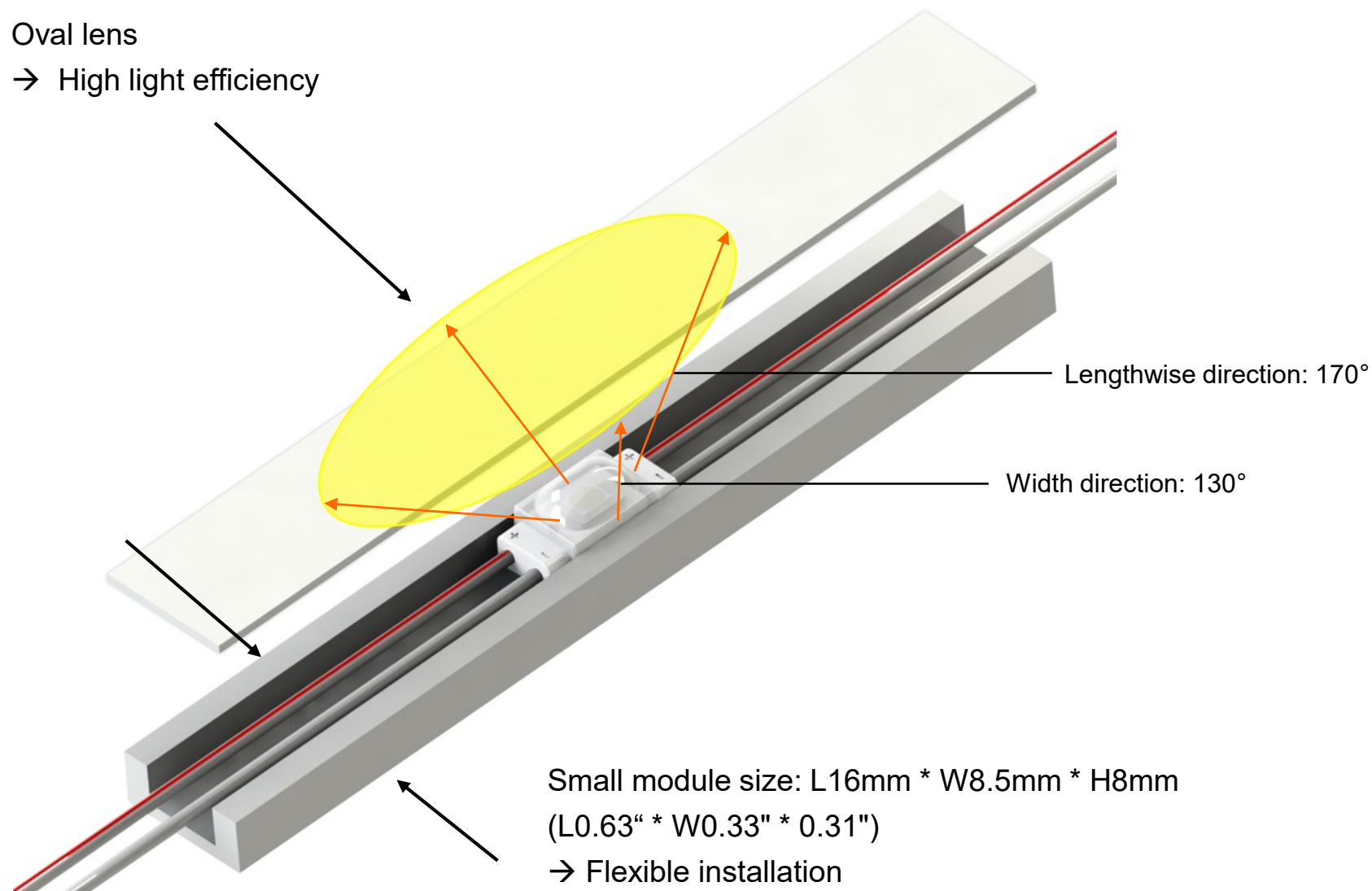
- 12VDC
- 41 lm/module (white)
- 115 lm/W (white)
- Beam angle 170° x 130°
- CE marked and UL listed

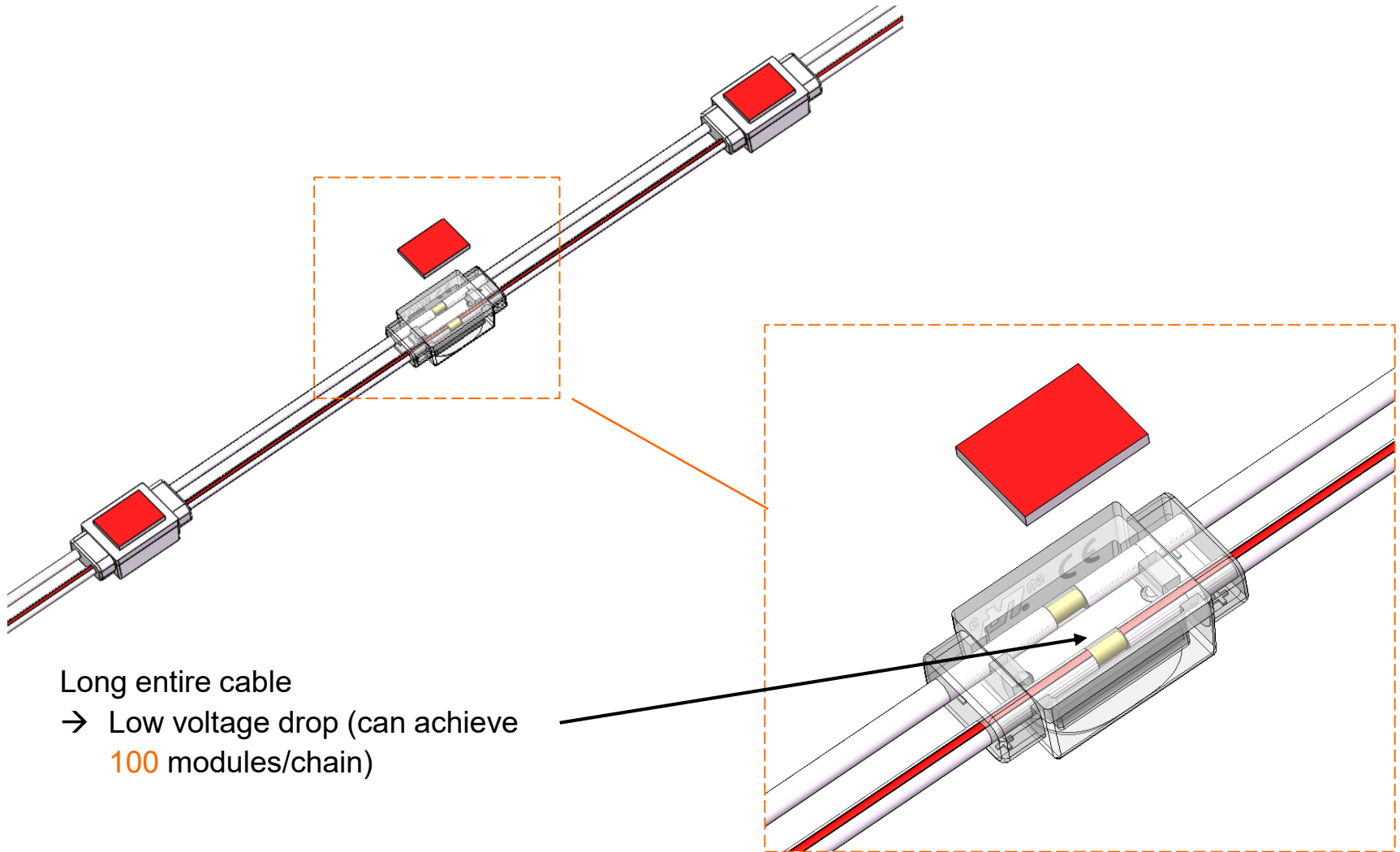


EPISTAR

Oval lens

→ High light efficiency





Electrical data

Product Description	Typical Voltage	Energy Consumption (W/module)	Energy Consumption (W/chain)	Energy Consumption (W/ft.)	Power Supper Loading		Additional Information (modules/chain)
M21GX02A	12VDC	0.36	36	2.2	166 modules/60W	27.3 ft./60W	100

Photometrical data

Product Description		Light color (designation)	Color (CCT, wavelength)	Color Rendering Index	Typical Brightness (lumen/module)	Typical Brightness (lumen/chain)	Typical Brightness (lumen/ft.)
M21GW02A		White	5500K-17000K	Ra > 70	41	6150	313
M21GR02A		Red	620-625 nm	-	6	900	46
M21GG02A		Green	520-525 nm	-	25	3750	191
M21GB02A		Blue	465-470 nm	-	5	750	38

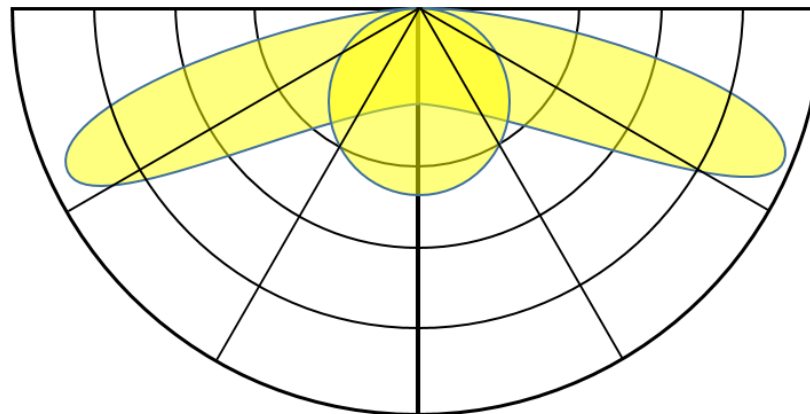
Environmental and Application Conditions

Operating Environment (t_a)	-25°C to +55°C
Storage Temperature Range (t_s)	-40°C to +85°C
Max. operating (case) temperature (t_c)	80°C
IP Rating	IP67
Lifetime (L70B50)	50,000 hours
Dimming mode	Dimmable
Cutting Resolution	Cut on wire between every module

Maximum Supply Wire Limits

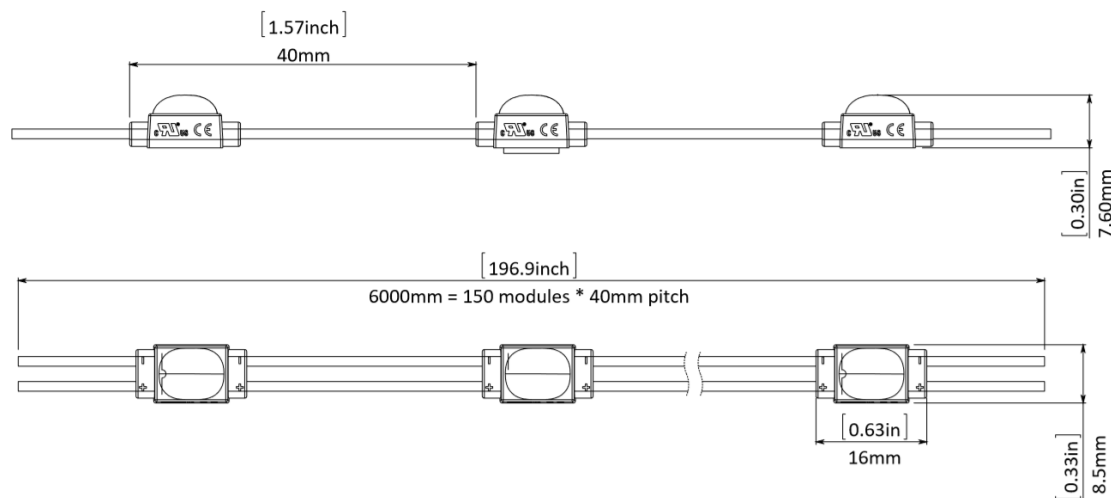
30W	83 modules	3.3 m (10.9 ft.)
60W	166 modules	6.7 m (21.9 ft.)
80W	222 modules	8.9 m (29.2 ft.)
100W	277 modules	11.1 m (36.4 ft.)
180W	500 modules	20 m (65.6 ft.)

Light distribution

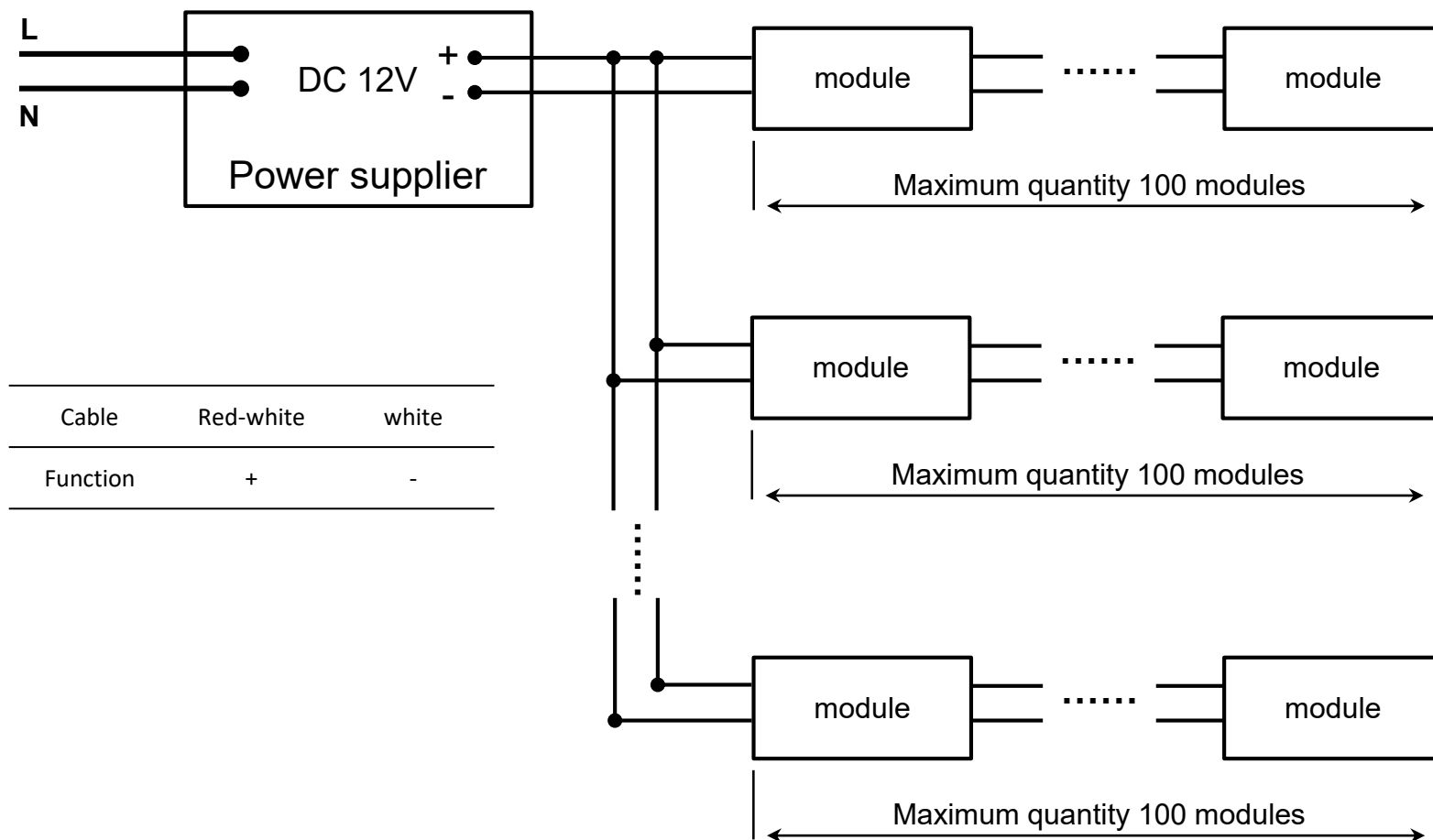


170° x 130°

Product line drawing



Wiring method



* The secondary cable recommend AGW18, < 1 meter (3.28 ft.)

Package

Product description	Package unit (modules/carton box)	Package unit (chains/carton box)	Carton box Dimensions (length x width x height)	Volume	Gross weight
M21GX02A	6000	60	0.52m*0.37m*0.26m (1.71ft.*1.21ft.*0.85ft.)	0.05 m ³ (1.76 cu ft.)	11 KG

Additional product information

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- LED modules are dimmable by means of PWM (pulse width modulation).