Product datasheet

Backlighting Mini Plus

- ALEDMINIM-12DL

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
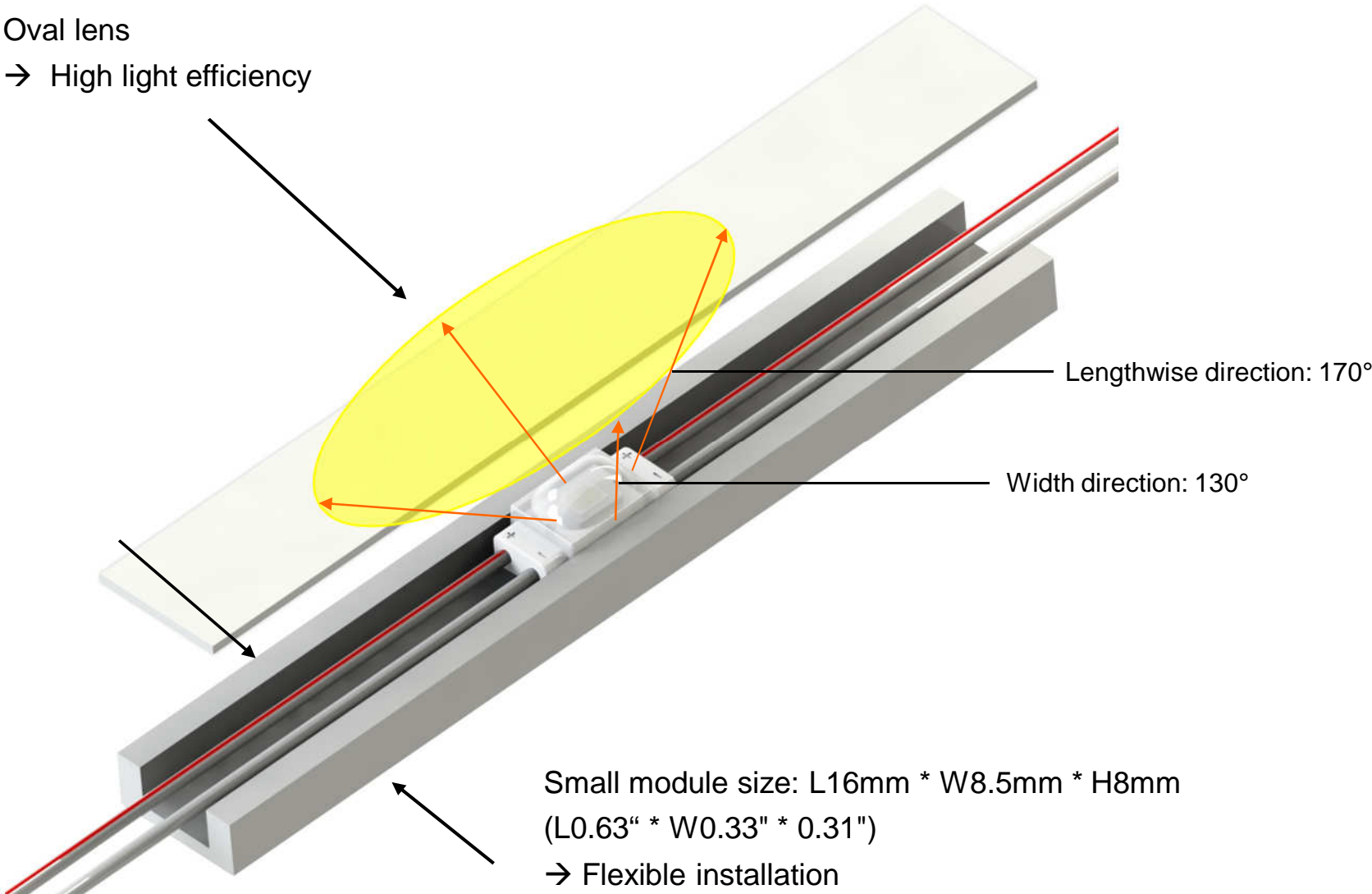- Long lifetime 5 years warranty

Product features

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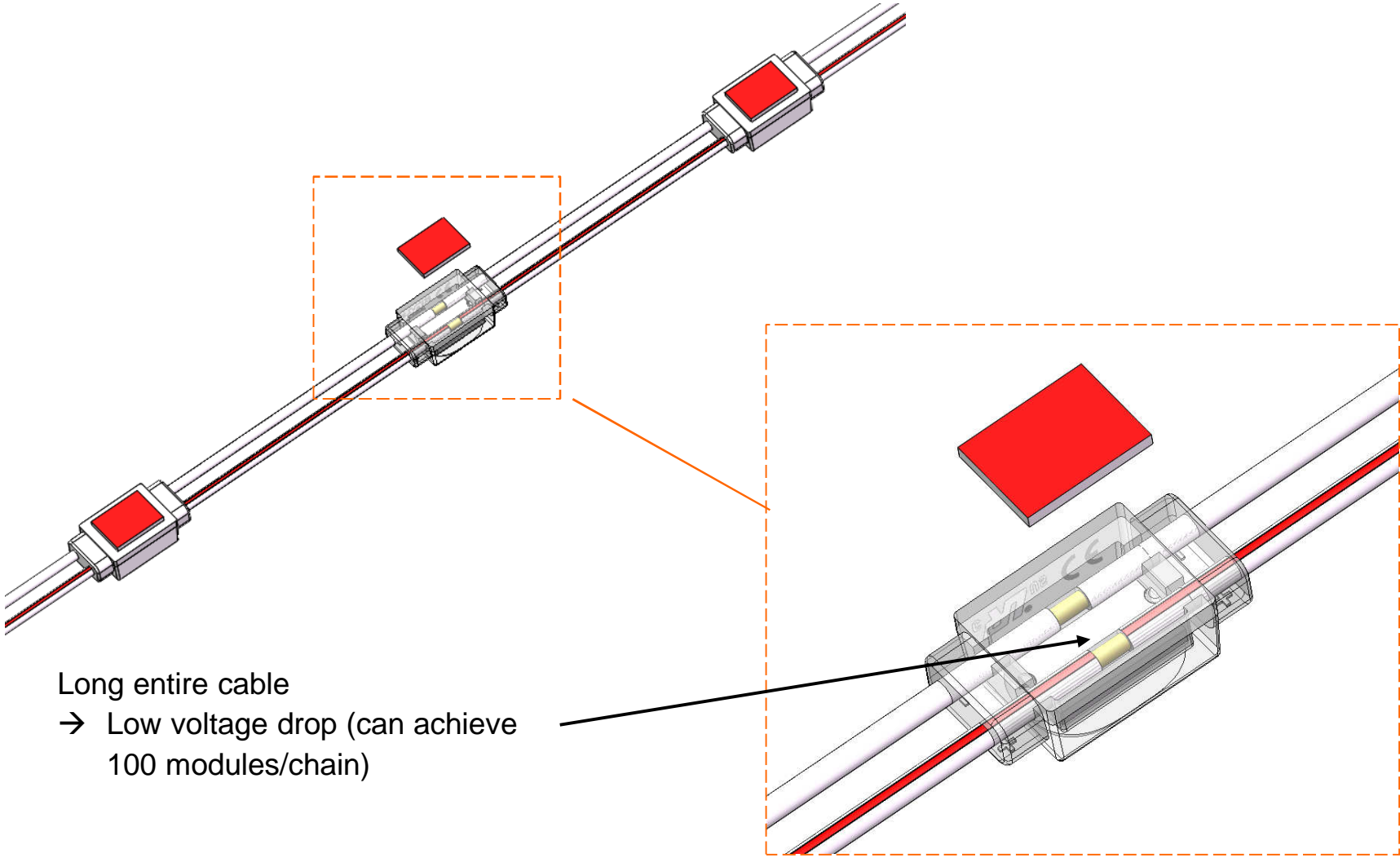- 115 lm/W
- Beam angle 170° x 130°
- CE marked and UL listed

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Oval lens
→ High light efficiency

Lengthwise direction: 170°

Width direction: 130°

Small module size: L16mm * W8.5mm * H8mm
(L0.63" * W0.33" * 0.31")
→ Flexible installation

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Long entire cable
→ Low voltage drop (can achieve
   100 modules/chain)

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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)
ALEDMINIM-12DL	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.)
ALEDMINIM-12DL	White	7000K	Ra > 70	41	4100	250

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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	4.2 m (13.7 ft.)
60W	166 modules	8.3 m (27.3 ft.)
80W	222 modules	11.1 m (36.4 ft.)
100W	277 modules	13.9 m (45.6 ft.)
180W	500 modules	25 m (82 ft.)

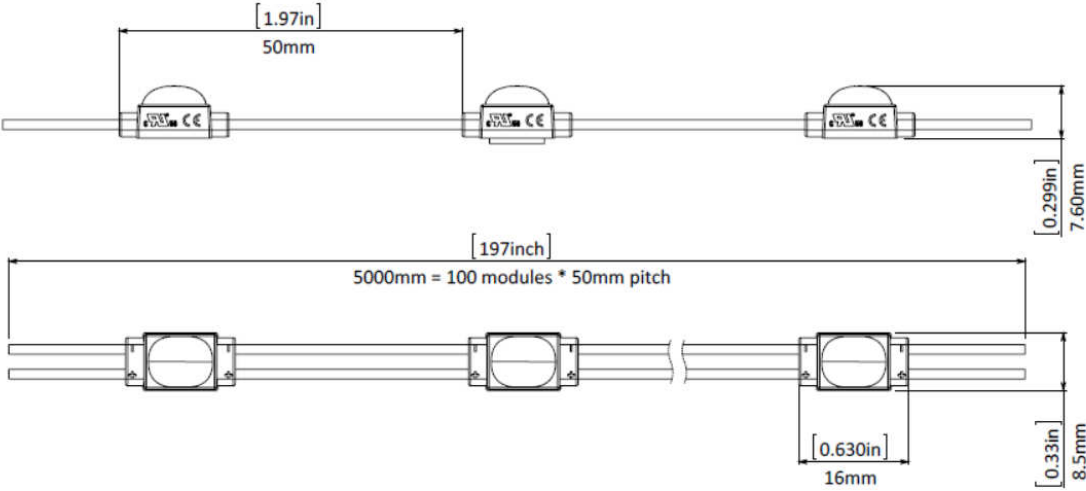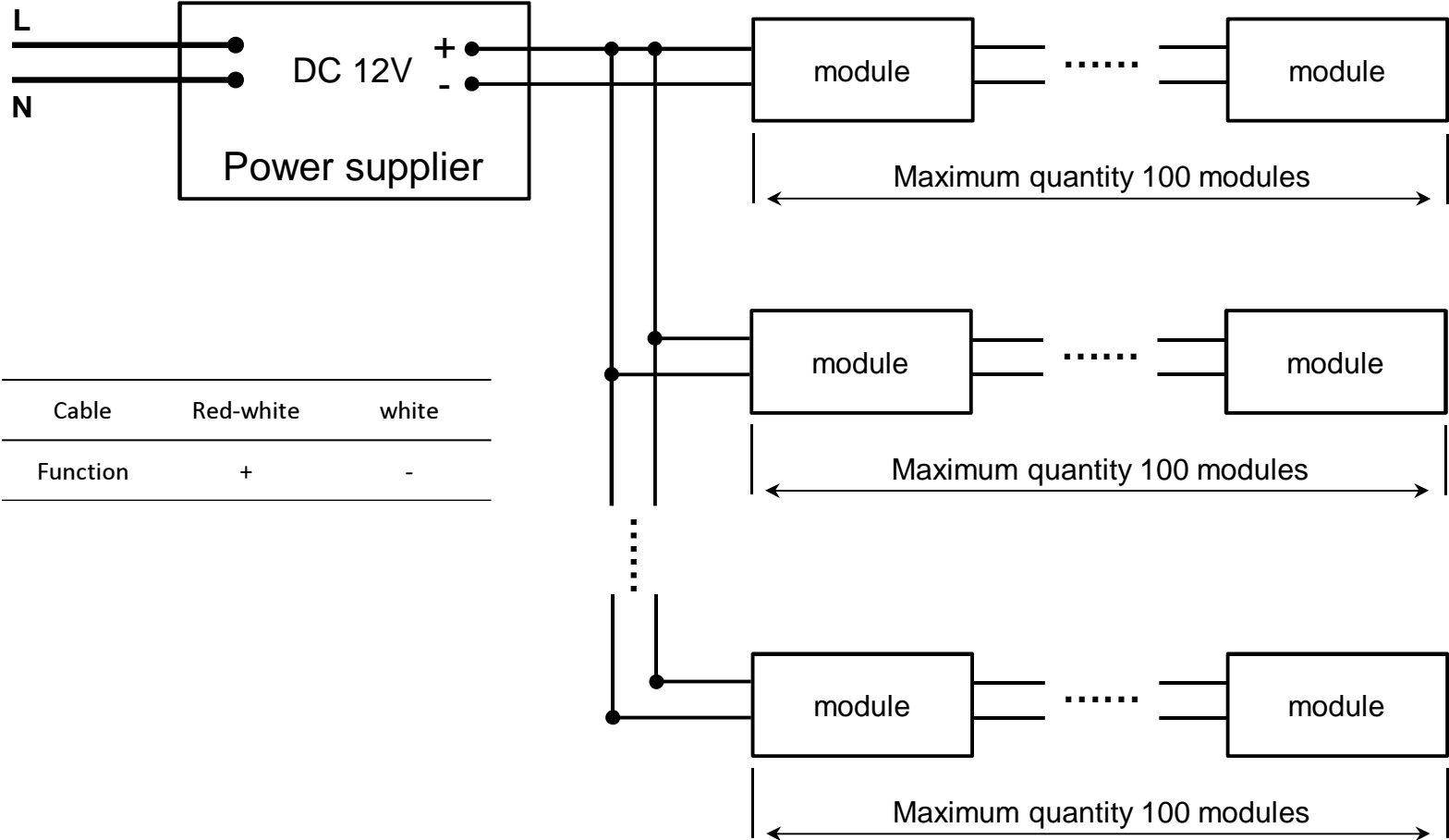# Product datasheet

Light distribution
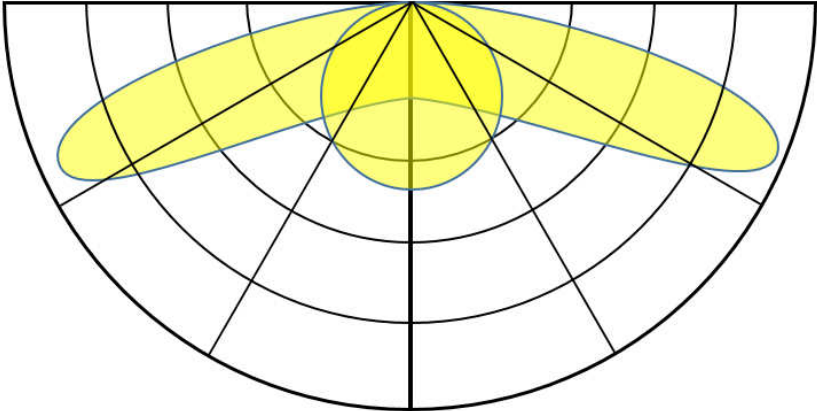
170° x 130°

Product line drawing

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Wiring method

Cable	Red-white	white
Function	+	-

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