

## LED Module

### Explosion-proof Series



CNEx Certificate : CNEx 24.2935U  
IECEX Certificate : IECEX CNEX 24.0030U  
EU ATEX Certificate : 2614 CNEX 24 ATEX 0032U

### Features

- Ex Marking: Ex mb IIC Gb
- High luminous efficiency:  $\geq 165$  lm/W
- Power options: 36W max / 100W max
- CCT options: 4000K/5000K/6000K
- $R_a \geq 80$ , beam angle  $120^\circ$
- Service temperature:  $-40 \sim +115^\circ\text{C}$
- Compact design:  $300 \times 70 \times 9\text{mm}$
- Patented structure design
- Long lifespan, reliable performance

### Application

- Explosion-proof LED lamp core component
  - Custom explosion-proof luminaire design
  - Chemical plant lighting fixtures
  - Oil & gas industrial lighting
  - Mining lighting modules
  - Industrial lighting retrofits
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## Technical Parameters

Parameter	36W Version	100W Version
Dimensions	300mm×70mm×9mm	300mm×70mm×9mm
Max Power	36W	100W
Max Input Current	1A (Vf=36V)	2.1A (Vf=48V)
Luminous Efficiency	≥165 lm/W	≥165 lm/W
CCT	4000K/5000K/6000K	4000K/5000K/6000K
Color Rendering Ra	≥80	≥80
Beam Angle	120°	120°
Service Temperature	-40~+115°C	-40~+115°C
Explosion Mark	Ex mb IIC Gb	Ex mb IIC Gb

## Explosion-proof Standards & EMC

- Ex standards

IEC 60079-0:2017

IEC 60079-18:2017

EN IEC60079-0:2018

EN 60079-18: 2015

EN 60079-18:2015/A1:2017

GB/T 3836.1-2021, GB/T 3836.9-2021

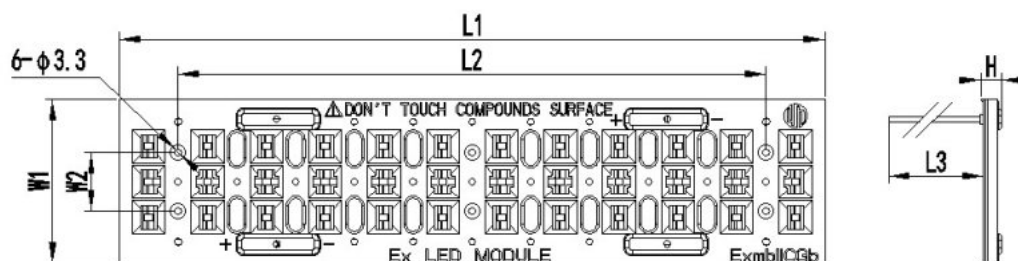
- EMC:

IEC55015

IEC61000-4-3

IEC61000-3-3

## Product Dimensions



Model	L1 (mm)	L2 (mm)	L3 (mm)	W1 (mm)	W2 (mm)	H (mm)
ExLMD300X70RP□W	300	250	Customized	70	25	9

### Schedule of Limitations

- The explosion-proof LED light source module shall be installed in an increased safety type (type "e") explosion-protected enclosure that complies with the IEC/EN 60079-0 standard and has an enclosure protection rating of no less than IP54. It shall only be used in conjunction with a heat sink, and it is recommended that the thermal conductivity of the heat sink be no less than 90 W/(m·K).
- LED module cannot be repaired, replace whole unit when faulty.
- The explosion-proof LED light source module may be re-tested by the end product manufacturer in practical applications. When determining the temperature class of the final product, an additional temperature rise  $\Delta T$  on the product's enclosure surface temperature "tc" shall be taken into account, as detailed in the table below.

Model	Temperature rise ( $\Delta T$ )
ExLMD300X70RP100W	17.7
ExLMD300X70RP36W	12.4

### Installation and Operation

- Check wiring before power-on, ensure correct polarity and connection
- Ensure ground terminal is reliably grounded for safety and EMI reduction
- Do not touch during operation to avoid electric shock
- Do not exceed rated electrical parameters
- Contact technical department if output parameters need to be changed
- Contact after-sales service for faults, do not repair without permission

### Packing, Transportation & Storage

- Store in packing box when not in use
- Suitable ambient temperature and relative humidity
- No corrosive gases, no strong vibration, shock or magnetic field
- Packing box at least 20cm off ground
- Re-inspect if storage over 6 months