

EX Pod

GROUP I:
UNDERGROUND
MINING Ex db I Mb

EX

IP
68

MASC-Certified Flameproof LED Lighting for Underground Mining.



Designed for harsh underground mining environments, the EX POD combines IP68 ingress protection with **MASC-certified Group I** flameproof protection (Ex db I Mb). An optional MASC-approved emergency backup system is available in a separate external housing.

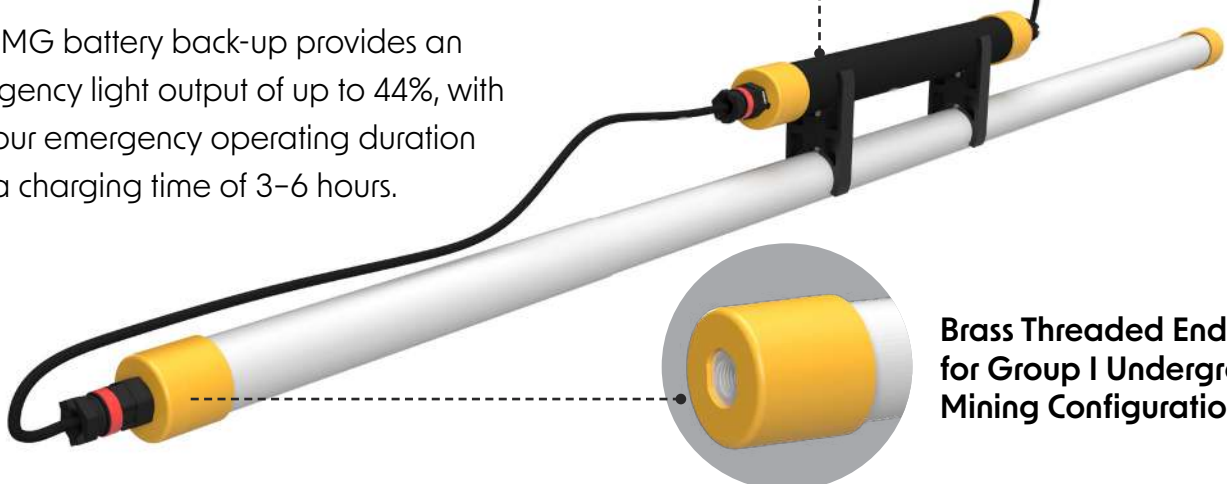
Proudly manufactured in
South Africa using
European LED Technology



**MASC APPROVED EXTERNALLY
HOUSED EMERGENCY BACKUP
AVAILABLE (ON REQUEST).**

20W EMERGENCY GEAR

The EMG battery back-up provides an emergency light output of up to 44%, with a 1-hour emergency operating duration and a charging time of 3-6 hours.



**Brass Threaded End Cap
for Group I Underground
Mining Configuration.**



Specifications sheet for the EX POD



kV Protection:
4kV standard
12kV on request



5000K standard
3000K, 4000K,
available
CRI80



**Indoor /
Outdoor/
Underground**



**Impact
Resistance:**
IK08/5J



**Casing
Diffuser:**
Polycarbonate



Modular:
Expandable
system



L&B Life Rating
L90 B10 35 000 Hrs
L80 B10 70 000 Hrs

Different wattage, length & lumen options

FLAMEPROOF

Ex db I Mb

IN-LINE DRIVER

Raw Lumen:	8 156 lm	11 200 lm
Effective Lumen:	6 984 lm	9 500 lm
Wattage:	45W	64W
Power Factor:	0.95	0.95
Raw Efficacy:	182 lm/w	176 lm/w
Effective Efficacy:	156 lm/w	149 lm/w
Max Ta:	40°C	40°C
L90 B10 35 000 Hrs		
L80 B10 70 000 Hrs		

1770mm x 50mm

EX POD 104

SPLIT PIGGY-BACK / REMOTE DRIVER

Raw Lumen:	8 156 lm	11 200 lm
Effective Lumen:	6 984 lm	9 500 lm
Emergency:	3 104 lm	2 969 lm
Wattage:	45W	64W
Power Factor:	0.95	0.95
Raw Efficacy:	182 lm/w	176 lm/w
Effective Efficacy:	156 lm/w	149 lm/w
Max Ta:	40°C	40°C
L90 B10 35 000 Hrs		
L80 B10 70 000 Hrs		

1320mm x 50mm

EX POD 104

Raw Lumen:	16 312 lm	22 400 lm
Effective Lumen:	13 968 lm	19 000 lm
Emergency:	3 104 lm	2 969 lm
Wattage:	90W	128W
Power Factor:	0.95	0.95
Raw Efficacy:	182 lm/w	176 lm/w
Effective Efficacy:	156 lm/w	149 lm/w
Max Ta:	40°C	40°C
L90 B10 35 000 Hrs		
L80 B10 70 000 Hrs		

2440mm x 50mm

EX POD 108

Distribution option

Available in:

- 50°
- 80°
- 100°
- 110°
- Also Available in Frosted (110°)

Ingress Protection: IP68

CLEAR DIFFUSER

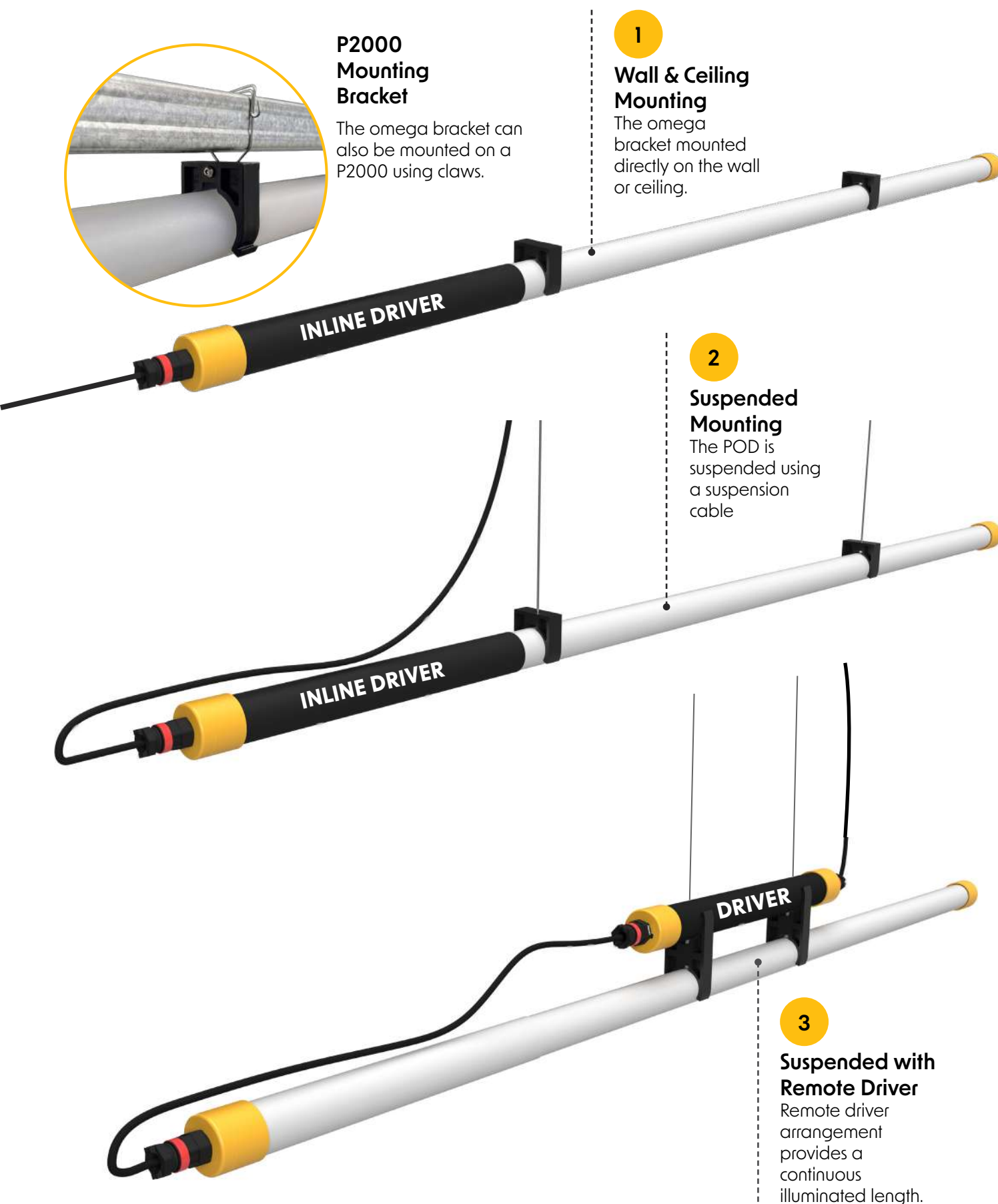


Zone 1/2 Available in:
Group I: Mining applications
(methane and coal dust risks)



Mounting Options:

Easy to install , **Saving** you time & money



Features

Standard across the EX Pod range.



Indoor / Outdoor / Underground



Polycarbonate encapsulation.



Colour temperature 3000K, 4000K, 5000K



Colour rendition index 80+



L&B Life Rating: L90 B10 35 000 Hrs
L80 B10 70 000 Hrs



Earth connection and CLASS I insulation fixture.



Optic impact rating IK08/5J.



Surge protection: 4kV standard and 12kV on request.



Wall & ceiling/suspended mount.



Plug & Play



Modular

For a wide variation of other EX offerings please visit www.energywise.co.za

Send us your lighting specification or RFQ for product selection and quotation.



5 year warranty:
Please visit
www.energywise.co.za

Extras

Optional Extras



IES files available.



EMG Battery Backup

DIRECT FACTORY SUPPORT

Work directly with Energywise Systems to select the right EX POD configuration for your application.

- **Technical assistance:** Guidance on model selection, light output, mounting options and emergency backup.
- **Lighting design data:** IES photometric files available to support lighting layouts and performance calculations.
- **Certification documents:** Relevant MASC certificates and supporting technical information available for review.
- **Project quotations:** Send us your lighting specification, quantities and installation requirements for product selection and pricing.

DELIVERED LIGHT OUTPUT

Our published delivered lumen figures reflect the complete luminaire operating at thermal equilibrium at an ambient temperature of 35°C, including the effects of fitted optics. Luminaire efficacy is calculated using delivered light output and total electrical input power, including driver losses.

LET'S DISCUSS YOUR LIGHTING REQUIREMENTS

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Designed and
Manufactured by

energywise[®]

**Better Light
Through Research.**

Disclaimer:

While every effort is made to ensure the accuracy of technical details at the time of publication, Energywise Systems (Pty) Ltd reserves the right to modify or upgrade product or component specifications without prior notice. Our products undergo continuous improvements in technology, energy efficiency, safety, and cost-effectiveness to meet evolving industry standards and technical updates. All upgrades are engineered to maintain or enhance product quality and safety, and specification changes made in accordance with our Quality Management System shall not constitute grounds for claims or complaints.

Our manufacturing and assembly operations adhere to SABS Mark Permit conditions (Permit No. 11133/17457), SANS / IEC 60598 luminaire safety standards, and SANS / IEC 80079-34 Explosion-Protected Quality Systems where applicable. Our products are covered by a Comprehensive Product Liability Policy, and our LED luminaires carry warranties of up to 7 years (specific terms apply depending on product line and emergency battery backup configurations—please contact Head Office for full T&Cs)



MASC
CERTIFIED



MADE IN
SOUTH AFRICA