MAGSOL PRO RANGE





40W

7,840 lumens **60W**

11,760 lumens **W08**

15.680 lumens

19,600 lumens

100W | 120W

23,520 lumens



Introduction

Two Piece Solar Street Light

Hello Performance!

The MAGSOL PRO series is Magnitech's high-performance split solar street lighting solution, designed for reliability, efficiency, and visual appeal.

Equipped with a robust LiFePO₄ battery, high-efficiency MPPT controller, and a durable aluminium housing, the MAGSOL PRO delivers powerful illumination built to endure harsh environments.

Engineered for long-lasting performance with a sleek, modern design — it's lighting so reliable, you'll forget it's not on the grid.

With the MAGSOL PRO, you've got the power and control to light up any project, no matter the challenge!



Fit-For-Purpose:

















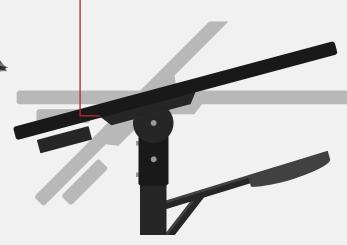






Four tilts available: 0° | 15° | 30° | 45°

Engineered with independently tiltable solar panels, the MAGSOL PRO adapts easily to diverse lighting needs while maximising solar energy capture.



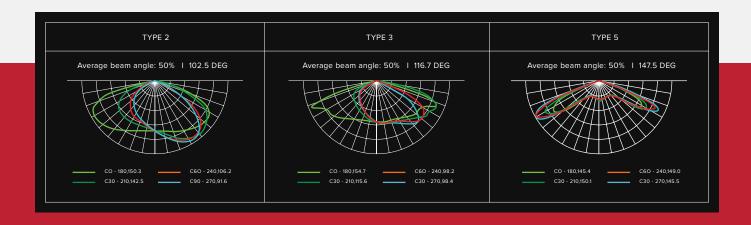


LED Modules



Our LED Module is equipped with PHILIPS LUXEON HE PLUS high efficiency chips, delivering an impressive 196 Lumens per Watt efficacy.

The luminaire adheres to DARK SKY requirements for light pollution, ensuring minimal upward lighting at just 0,31%.



Monocrystaline

Solar Panel

The MagSol PRO panels feature monocrystaline solar cells with TOPCON Grade A Quality - boasting up to 25.5% efficiency and 97% conversion efficiency in low light.

These panels are tough against corrosion. The fully waterproof Plug and Play connectors ensure a seamless and reliable installation.



IR REMOTE CONTROL (OPTIONAL)

- Check battery status
- Check charging history
- Settle different running time slots
- Issue diagnostic



OPCON SOLAR TECHNOLOGY



MPPT Controller and Driver.



Batteries LifePo4

The MagSol PRO line utilizes the Lithium Iron Phosphate LifePo4 battery, the proven best technology on the market for solar applications.

This leading solar technology offers over 4000 cycles at 80% DOD, ensuring a robust lifespan exceeding 10 years. It combines reliability with efficiency, perfectly aligning with our budget-friendly yet high-quality PRO range. Durability and savings, all in one package!

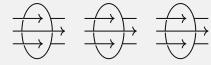


All weather conditions ready -10°C to 45°C (optional -40°C)

BMS SYSTEM

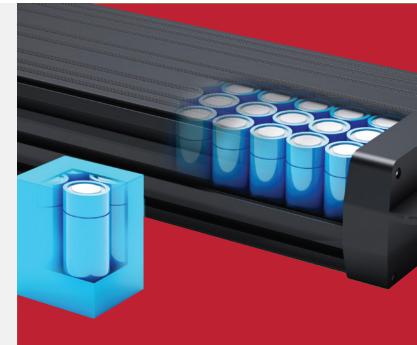
Electronic battery management system

Our batteries are equipped with electronic circuit boards for a higher protection.



- Over & Under Current Overload
- Over & Under Voltage Over & Under Charge
- Temperature Management

Direct battery access | Anti-Theft Screws



HEAT DISSIPATION

High temperatures greatly reduces battery lifetime. That's why our batteries are encased in an aluminium waterproof casing for perfect heat dissipation.

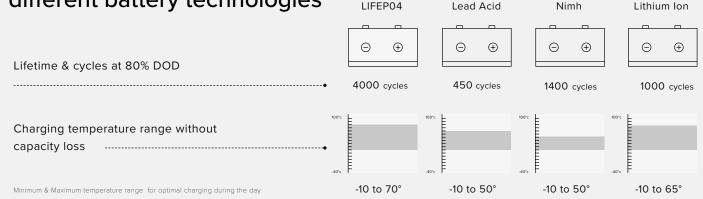
Natural airflow also keeps the battery at ambient temperature, ensuring optimal performance.



Natural Airflow Design for Improved **Heat Dissipation**

Comparison

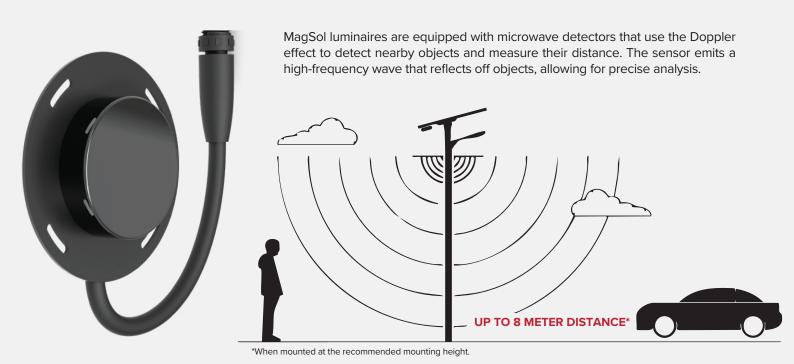
of different battery technologies



LIFEP04

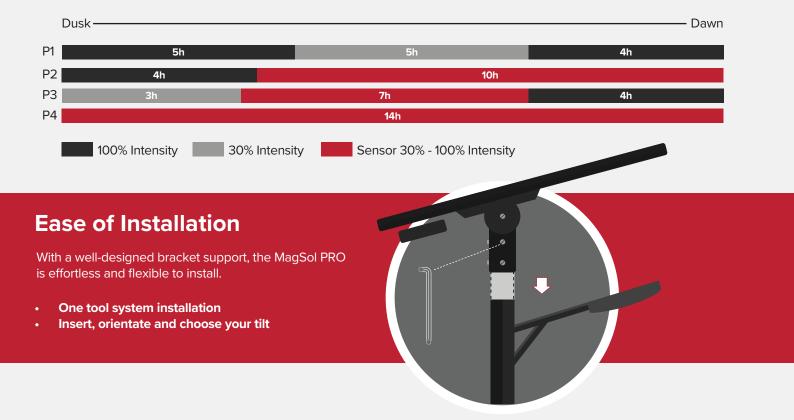


Microwave Sensor



Operation Mode

Whether your project demands part-night brightness, early evening lighting, or anything in between, our flexible lighting programs have you covered. Choose from different modular operating modes to suit the specific needs of your project.





Technical Specifications







FEATURE	MAGSOL PRO 40	MAGSOL PRO 60	MAGSOL PRO 80
NOMINAL POWER	40 Watts	60 Watts	80 Watts
NOMINAL FLUX	7840 Lumens	11760 Lumens	15680 Lumens
LIGHTING			
Efficiency	196 Lumens/Watt		
Chip	PHILIPS Luxeon 30-30		
Lifetime	100 000 Hours		
Recommended Mounting Height	5-6 Meters	6-7 Meters	7-8 Meters
STORAGE			
Technology	Lithium Iron Phosphate LifePo4		
Capacity	627 Wh	922 Wh	1152 Wh
Autonomy	> 24 Hours at Full Charge, Up to 4 Rainy Days Back Up		
Charging Time	5-6 Hours		
Lifespan	Over 4000 Cycles @ 80% DOD Over 10-Year Lifetime		
Working Temperature	-10°C - 45°C (Optional -40°C - 45°C)		
ENERGY			
Solar Panel	135W / 18V	195W / 18V	195W / 18V
Cell Type	Monocrystaline Topcon Grade A - Up to 25.5% Efficiency and 97% Conversion Efficiency in Low Light		
Certificates	IEC 61215 - IEC 61730 I and II - IEC 60904		
ELECTRONIC			
Controller	MPPT Smart Controller		
Sensor	Microwave 360° Motion Sensor		
Cabling	Waterproof Connector Plug and Play		
Protection	Battery Management System (BMS)		
DIMENSIONS			
Unit Size	990 x 670 x 271	1450 x 670 x 271	1450 x 670 x 271
Carton Size	1060 x 730 x 245	1510 x 730 x 245	1510 x 730 x 245
Net Weight	14.5 KG	21 KG	20.7 KG
Gross Weight	20 KG	26 KG	26 KG



TechnicalSpecifications (cont.)



FEATURE	MAGSOL PRO 100	MAGSOL PRO 120	
NOMINAL POWER	100 Watts	120 Watts	
NOMINAL FLUX	19600 Lumens	23520 Lumens	
LIGHTING			
Efficiency	196 Lumens/Watt		
Chip	PHILIPS Luxeon 30-30		
Lifetime	100 000 Hours - LM80		
Recommended Mounting Height	8-10 Meters	8-10 Meters	
STORAGE			
Technology	Lithium Iron Phosphate LifePo4		
Capacity	1280 Wh	1536 Wh	
Autonomy	> 24 Hours at Full Charge, Up to 4 Rainy Days Back Up		
Charging Time	5-6 Hours		
Lifespan	Over 4000 Cycles @ 80% DOD Over 10-Year Lifetime		
Working Temperature	-10°C - 45°C (Optional -40°C - 45°C)		
ENERGY			
Solar Panel	250W / 18V	250W / 18V	
Cell Type	Monocrystaline Topcon Grade A - Up to 25.5% Efficiency and 97% Conversion Efficiency in Low Light		
Certificates	IEC 61215 - IEC 61730 I and II - IEC 60904		
ELECTRONIC			
Controller	MPPT Smart Controller		
Sensor	Microwave 360° Motion Sensor		
Cabling	Waterproof Connector Plug and Play		
Protection	Battery Management System (BMS)		
DIMENSIONS			
Unit Size	1260 x 880 x 271	1260 x 880 x 271	
Carton Size	1320 x 945 x 245	1320 x 945 x 245	
Net Weight	25 KG	25 KG	
Gross Weight	30 KG	30 KG	
Net Weight	25 KG	25 KG	

Related Solar Products



Solar High Mast



Solar Floodlight



Solar All-In-One

MAGNITECH - BENCHMARKING THE STANDARD OF QUALITY



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