

INTEGRATED SOLAR STREET LIGHT

SKU: VB-NM-SERIES



Combining cutting-edge technology & sleek design, the **NEW Vibe VB-NM Series** solar street light provides sustainable lighting for streets, walkways and public spaces.

- **Eco-Friendly Lighting:** Fully powered by solar energy, reducing both carbon emissions and operating costs.
- **All-in-One Design:** The solar panel and high-capacity battery are seamlessly integrated, delivering consistent, high-brightness illumination.
- **Durable & Long-Lasting:** Designed for maximum durability and performance, it stands up to the harshest elements while enhancing your environment.



INTEGRATED SOLAR STREET LIGHT VB-NM-SERIES

Introducing the VB-NM New Moon Series Solar Street Light, a high-performance solution designed to provide efficient, sustainable lighting for streets and public spaces. Featuring a PIR sensor, this streetlight is powered by cutting-edge solar technology, including highly efficient components and a long-lasting LifePo4 lithium battery.

Compact and versatile, the New Moon Solar Street Light is perfect for a wide range of applications, providing zero-emission lighting solutions while saving on utility costs. Illuminate your world sustainably with the power of solar!

Perfect for Caravan Parks, Local Parks & Gardens and anywhere where direct power is unavailable OR energy saving and sustainability is a high priority.

FEATURES & BENEFITS:

- **Grade A+ Battery Cell:** Ensures a battery cycle life of over 4000 charges.
- **High Luminous Efficiency:** 210~220 LM/W for maximum battery performance.
- **Pivoting LED Modules:** Provide optimal lighting control for enhanced coverage.
- **Zero Carbon Emissions:** Environmentally friendly, reducing your carbon footprint.
- **Bird Spikes:** Prevent birds from landing and nesting, keeping the light fixtures clean and free from debris.
- **IP66 Rated:** Guarantees long-lasting, consistent high performance, even in harsh weather conditions.

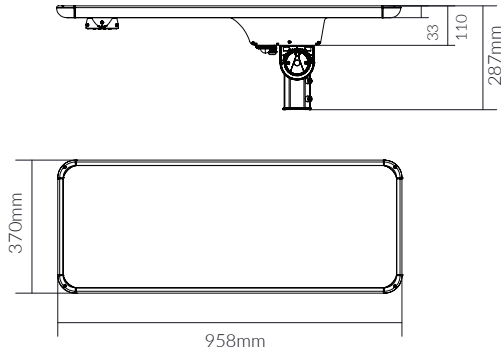
SPECIFICATIONS:

SKU:	VB-NM-30W-4-5K	VB-NM-50W-4-5K
Power (W)	30W	50W
Lumen Output	6600	10500
Efficacy (LM/W)	220	210
Colour Temp	5000K	5000K
Beam Angle	TYPE III	TYPE III
Solar Panel	55W/18V	75W/18V
LiFeP04 Battery	12.8V/30AH	12.8V/36AH
CRI	70	70
Sensor	PIR	PIR
Trim Colour	Black	Black
IP & IK Rating	IP66 & IK08	IP66 & IK08
Lifespan	50,000 hours	50,000 hours
Warranty	5 years	5 years

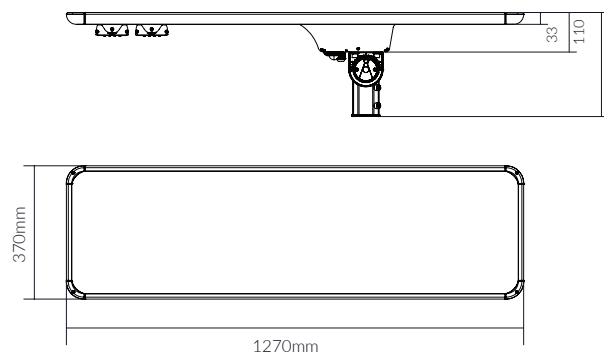


DIMENSIONAL DRAWING

VB-NM-30W-4-5K



VB-NM-50W-4-5K



HIGH PERFORMANCE BATTERY PACK (GRADE A+ CELL)



SHINE BRIGHTER. LAST LONGER.

Premium All-in-One Solar Street Lights

Step up to next-generation solar street lighting with our high-performance all-in-one designs, engineered for maximum brightness and unbeatable reliability. Unlike most solar lights on the market, ours are powered by ultra-high-capacity lithium batteries, delivering exceptional energy storage and longer-lasting illumination.

- 30W Model: 12.8V / 30Ah battery
- 50W Model: 12.8V / 36Ah battery

That's up to 40% more battery capacity than standard models — meaning brighter nights, longer run times and dependable performance even during extended cloudy periods.

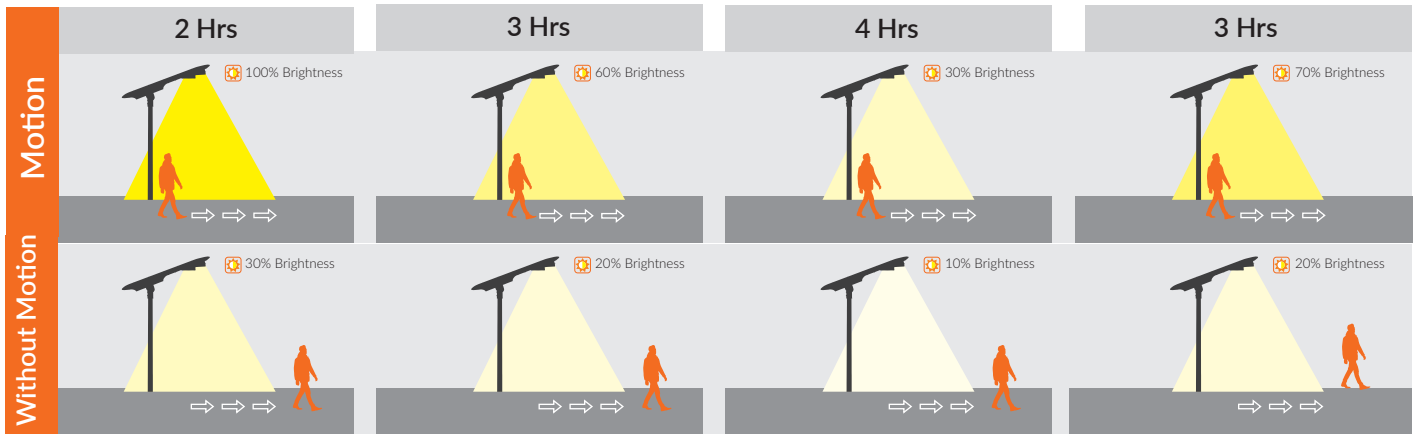
Why Choose Our Lights?

- **Bigger Batteries, Better Performance** – store more energy and power through the night
- **Superior LED Brightness** – advanced optics ensure wide, even light distribution
- **Smart Energy Management** – automatic on/off and intelligent dimming to maximise efficiency
- **Built to Last** – rugged, weatherproof construction for all environments
- **Hassle-Free Installation** – no cabling, no trenching, no ongoing power costs

Whether you're lighting up streets, car parks, pathways, or remote areas, our solar street lights deliver premium performance you can count on — day after day, night after night. Brighter. Smarter. Stronger.

MPPT CONTROLLER WITH MOTION SENSOR MODE

The graphic illustrates how the MPPT solar controller manages light output based on motion detection and the passage of time during the night. It compares two conditions: When **motion is detected** & When there is **no motion detected**. This ensures maximum energy efficiency while still providing safety and illumination when needed.



Motion Sensor Mode (with Motion Detected)

- First 2 hours → Light runs at 100% brightness
- Next 3 hours → Reduced to 60% brightness
- Following 4 hours → Further reduced to 30% brightness
- Final 3 hours → Increased again to 70% brightness

This sequence provides strong lighting during peak evening hours, saves energy in the middle of the night, and brightens again in the early morning for safety.

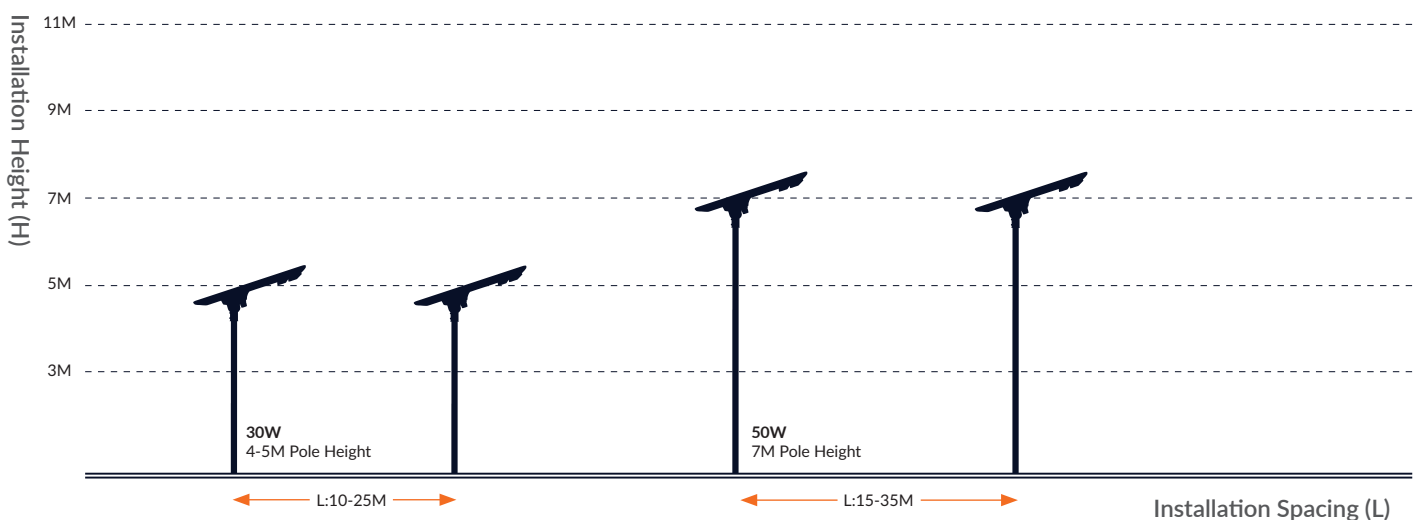
Without Motion

- First 2 hours → Light runs at 30% brightness
- Next 3 hours → Reduced to 20% brightness
- Following 4 hours → Reduced further to 10% brightness
- Final 3 hours → Back up to 20% brightness

This baseline ensures continuous but energy-saving illumination when no activity is detected.

The MPPT solar controller adjusts light intensity throughout the night, optimising battery usage by dimming when motion is absent and brightening when activity is detected. This balances safety, efficiency, and performance.

INSTALLATION REFERENCE



This installation guide shows 30W fittings mounted at 4–5 m with 10–25 m spacing, and 50W fittings at 7 m with 15–35 m spacing. Use tighter spacing for higher lux and better uniformity, or wider spacing for economy. Ideal for streets, pathways and car parks where reliable, energy-efficient illumination is essential.