

SOLAR LED SIGN

“Powering Night Visibility with Solar Innovation”



ALCOLite

PRODUCT OVERVIEW

Enhance night-time visibility and road safety with the Solar LED Sign, engineered for durability, performance, and intelligent solar operation. Designed for highways, curves, and critical road junctions, it ensures clear directional guidance even in low-light conditions.

GENERAL DETAILS

- Type:** Solar LED Sign
- Overall Size:** Customised as per Requirement.
- LEDs:** High-intensity amber LEDs with uniform light distribution.
- Flashing Pattern:** Sequential flashing for effective directional visibility.
- Operation:** Automatic ON at dusk and OFF at dawn using a built-in photo sensor.



POWER & CONTROL SYSTEM

- Battery:** 8 Ah maintenance-free, rechargeable Li-ion / LiFePO₄ battery.
- Solar Panel:** 10W mono/polycrystalline, high-efficiency solar module.
- Microcontroller:** Inbuilt intelligent circuit for charge/discharge control, aluminium operation, and flashing pattern management.
- Backup Time:** Minimum 72 hours of continuous operation on full charge.



CONSTRUCTION & MOUNTING

- Body Frame:** Rigid MS pipe frame for superior strength.
- Front & Back Covering:** Aluminium Composite Panel (ACP) Sheets/M.S Sheets weatherproof and corrosion resistant.
- Mounting Pole:** Round MS pipe, 3000 mm (3 m) height, with base plate and foundation bolts for firm installation.



SAFETY & DURABILITY

- Ingress Protection:** IP65 or higher, ideal for outdoor weather conditions.
- Reflective Sheeting:** High-Intensity Prismatic (HIP) reflective film conforming to ASTM D4956 Type IV standards or equivalent.
- Warranty:** Minimum 2 years on the complete system including LEDs, battery, and solar panel.