

HYDRASOL

Solar Powered Sign Light

The HydraSol is a thoroughly developed and rigorously tested solar solution designed to illuminate signs up to 750 mm to E2 UE3 standards. Powered by our highly efficient 1-watt light engine, the HydraSol delivers reliable, purpose-built performance for solar powered signage illumination applications.

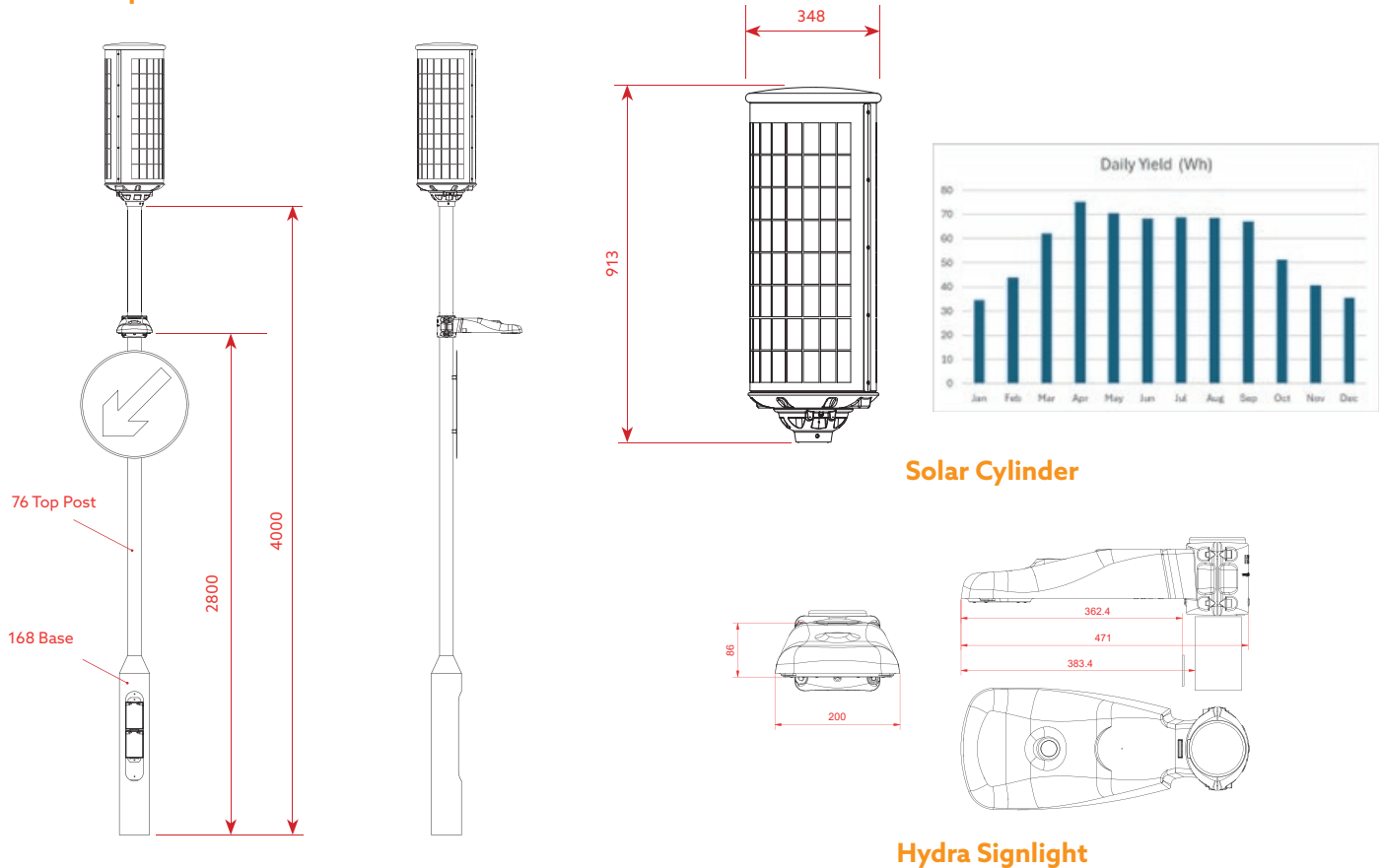
At the core of the system is our cylindrical, oversized 100-watt solar panel. Its vertical mounting orientation minimises installation errors related to panel positioning, while its shape ensures optimal collection of low-angle winter sunlight - when energy demand is greatest. Extended daylight hours and shorter nights during summer further support strong overall performance. Additionally, the innovative interconnection of the solar cells significantly reduces the impact of partial shading.

Completing the system is a smart regulator with Bluetooth-enabled data logging paired with an AGM battery, ensuring dependable energy management and long-term performance.

- **Efficient Illumination:** 1-watt light engine suitable for signs up to 750 mm to E2 UE3 standards.
- **Oversized Solar Panel:** 100-watt cylindrical panel reduces installation errors and collects winter sunlight efficiently.
- **Optimised for Winter:** Vertical orientation captures low-angle sun when energy demand is highest; summer efficiency is sufficient due to long daylight hours.
- **Shadow-Resistant Design:** Clever cell interconnection minimises the effects of partial shading.
- **Smart Energy Management:** Regulator with Bluetooth data logging paired with AGM battery ensures reliable system performance.



Technical Specification



Construction

Solar Cylinder	Rotationally moulded medium density polyethylene (MDP) in black, with a high performance 100 watt flexible solar panel utilising the latest Flexible CIGS technology. Impact and shock resistant with an anti-graffiti, non stick self cleaning surface. Cast aluminium gallery mounting, polyester powder coated black with stainless steel fasteners. 5 year warranty.
Signlight	HYDRA Pressure die cast marine grade aluminium, polyester powder coated grey or black. Body mates to a range of post fixing brackets. Stainless steel treaded inserts. E2 UE3 lighting on signs up to 750mm. 1 watt power consumption. See our Hydra datasheet for more information. 10 year warranty.
Battery	1 x 15Ah Advanced Glass Matt (AGM) battery (single HYDRA) or 2 x 15Ah AGM battery (Double HYDRA). Battery mounting brackets. Manufactured from Pre-galvanised mild steel powder coated black. Supplied with mounting screws. 3 year warranty.
Regulator	Victron SmartSolar MPPT 75/100 charge controller with built-in Bluetooth for VictronConnect app monitoring and configuration, and offers intelligent battery management with load disconnection to prevent deep discharge, extending battery life. 5 year warranty.
Column	4000mm (800 p/d) galvanised mild steel column with 168mm base housing and 76mm top post. Pre drilled to suit the Hydra and fitted out with battery brackets and wiring loom.

The HydraSol relies exclusively on solar energy for its operation. Performance may be affected by installation location, shading, weather conditions, seasonal variations, or insufficient exposure to direct sunlight. Accordingly, Portland Traffic accepts no responsibility for reduced performance or non-operation resulting from in-appropriate siting or lack of sunlight. It is the responsibility of the user/installer to ensure the product is positioned in a location that receives sufficient solar exposure to function as intended. Portland Traffic are happy to survey a site for suitability should this be required.