APAC Infrastructure Pty Ltd
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AH100 Aluminium Hinged Mast - Surf Rescue Beacon

AP-AH100-SRB



Key Features

- Marine-grade aluminium construction
- AH100-series hinging mast for easy servicing
- 200W solar array mounted on the headframe
- Victron MPPT charge controller and 80 Ah lithium battery

Overview

The AH100 Surf Rescue Beacon is a self-contained, solar-powered platform engineered to extend surf lifesaving coverage in remote or unmonitored coastal environments. Constructed from marine-grade aluminium, the system offers high corrosion resistance and long-term durability in harsh seaside conditions. Its hinged-base mast design enables straightforward servicing and rapid deployment, while the rigid, vibration-stable structure supports elevated camera and communications payloads for reliable situational awareness.

An integrated off-grid power system ensures continuous operation, featuring a 200 W high-efficiency solar array mounted at the mast head, paired with a Victron MPPT charge controller for optimal energy harvest. An 80 Ah lithium battery bank provides extended autonomy during low-sun periods, with all electrical components secured in a weather-sealed, lockable enclosure. The system can be configured with optional vision and communications packages, including HD cameras and multiple backhaul options, and integrates seamlessly with LIMSOP for live monitoring, incident response, and patrol coordination.

Designed specifically for coastal deployment, the AH100 hinged mast incorporates UV-stable powder coating, stainless steel hardware, and structural resilience against wind and salt exposure. It is suited to a range of applications, including temporary patrol setups, hazardous beach monitoring, event coverage, and environmental research.

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Specification

Parameter	AP-AH100-SRB
Physical Specifications	
Subtype	**Erexures**
Height (Nominal)	**4 m**
Materials	**Aluminium**
Material Finish	**Powdercoated**
Installation	**Platform / Substructure**
Mounting	**S600 Bolt Pattern**
Interfaces	
Installation / Attachment	Quantity: 1 — Mounting: S600 Bolt Pattern — Notes: Bolts to Surefoot S600 Pile Cap or other anchoring system

Australian designed and manufactured infrastructure for public safety and first response, built on the Sunshine Coast, Queensland. Need a variation on this design? Our team can engineer it to suit your site.

Contact us

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Specifications, dimensions and weights are nominal, correct at the date of issue and subject to change without notice. Images are for illustration and may show optional equipment. Confirm suitability for your site, including wind region and mounting surface, with APAC before ordering, and install in accordance with APAC's instructions and the relevant Australian Standards.

Issued 12 November 2026. For the latest version of this datasheet, visit https://apacinfrastructure.com.au/product-catalogue/mounting-structures/ah100-aluminium-hinged-mast-surf-rescue-beacon?v=575

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