

# Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

LIFE-SAVING LIGHT

## DX903S Solar-powered AIS AtoN Ais

DX903S Solar-powered AIS AtoN Ais To Naivgaiton With Compact All-in-One Design-20 Nautical Miles. Ultra-Low Power. No Base Station Required. The DX903S is a globally pioneering solar-integrated AIS Aids to Navigation sy...

- ISO9001 Supplier
- Class Certificate
- Export Supply

	<h3 style="margin: 0;">Key Highlights</h3> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="padding: 5px;"><b>Category</b></td> <td style="padding: 5px;">Life-Saving Light</td> </tr> <tr> <td style="padding: 5px;"><b>Standard</b></td> <td style="padding: 5px;">ISO</td> </tr> <tr> <td style="padding: 5px;"><b>Material</b></td> <td style="padding: 5px;">The DX903S is equipped with a patented 316 stainless steel antenna, ensu...</td> </tr> <tr> <td style="padding: 5px;"><b>Weight / Size</b></td> <td style="padding: 5px;">4x1.8W Operating Temperature -35°C to +60°C Parameter Loading RS232 Wate...</td> </tr> <tr> <td style="padding: 5px;"><b>Certificate</b></td> <td style="padding: 5px;">ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS</td> </tr> </table> <p style="font-size: small; margin-top: 10px;">We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.</p>	<b>Category</b>	Life-Saving Light	<b>Standard</b>	ISO	<b>Material</b>	The DX903S is equipped with a patented 316 stainless steel antenna, ensu...	<b>Weight / Size</b>	4x1.8W Operating Temperature -35°C to +60°C Parameter Loading RS232 Wate...	<b>Certificate</b>	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
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Technical Specifications			
<b>Category</b>	Life-Saving Light	<b>Model / SKU</b>	DX903S-Solar-powered-AIS-AtoN-Ais
<b>Standard</b>	ISO	<b>Material</b>	The DX903S is equipped with a patented 316 stainless steel antenna, ensuring superior corrosion resistance and durability even in the toughest maritime conditions.
<b>Weight / Size</b>	4x1.8W Operating Temperature -35°C to +60°C Parameter Loading RS232 Waterproof Level IP68 Weight ≤2.5 kg Dimensions 345mm x 122mm x 122mm Packaging Dimensions 500mm x 200mm x200mm Continuous Operation in Overcast/Rainy Conditions ≥30 days AIS Features Operating Frequency "161.975MHz, 162.025MHz" Modulation Mode GMSK/FSK Frequency Error ±0.5kHz Transmission Power 1W 2W 5W 6W 12.5W Average Power Consumption Continuous mode ≤1W (Low power mode ≤0.7W) Message Format "Messages 21, 6 adjustable, supports multiple formats" Operating Mode "Default Mode Three RATDMA (FATDMA, RATDMA, SOTDMA adjustable)" Battery Features Battery Type Lithium Battery Battery Capacity ≥100Wh	<b>Certificate</b>	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
<b>Warranty</b>	12 Months unless specified otherwise	<b>Origin</b>	China

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DX903S Solar-powered AIS AtoN Ais To Naivgaiton With Compact All-in-One Design-20 Nautical Miles. Ultra-Low Power. No Base Station Required.

The DX903S is a globally pioneering solar-integrated AIS Aids to Navigation system, featuring four high-efficiency 1.8W monocrystalline solar panels and an integrated 100Wh lithium battery. With a compact, IP68-rated, impact-resistant design, it operates autonomously in harsh marine environments, combining solar power, AIS communication, and advanced monitoring in a single, patented unit.

The DX903S is equipped with a patented 316 stainless steel antenna, ensuring superior corrosion res



durability even in the toughest maritime conditions. Its low-power AIS transmission system delivers a range of 20–25 nautical miles, offering independent signal transmission and reception without the need for external energy sources or base station support.

Perfect for offshore buoys, remote channels, and isolated navigational infrastructure, the DX903S offers a maintenance-reducing, reliable solution for modern maritime safety systems.

## Key advantages:

**Integrated Design:** The AIS communication module and battery are combined in a practical, all-in-one design.

**Waterproof:** Achieves an IP68 protection level, ensuring superior water resistance.

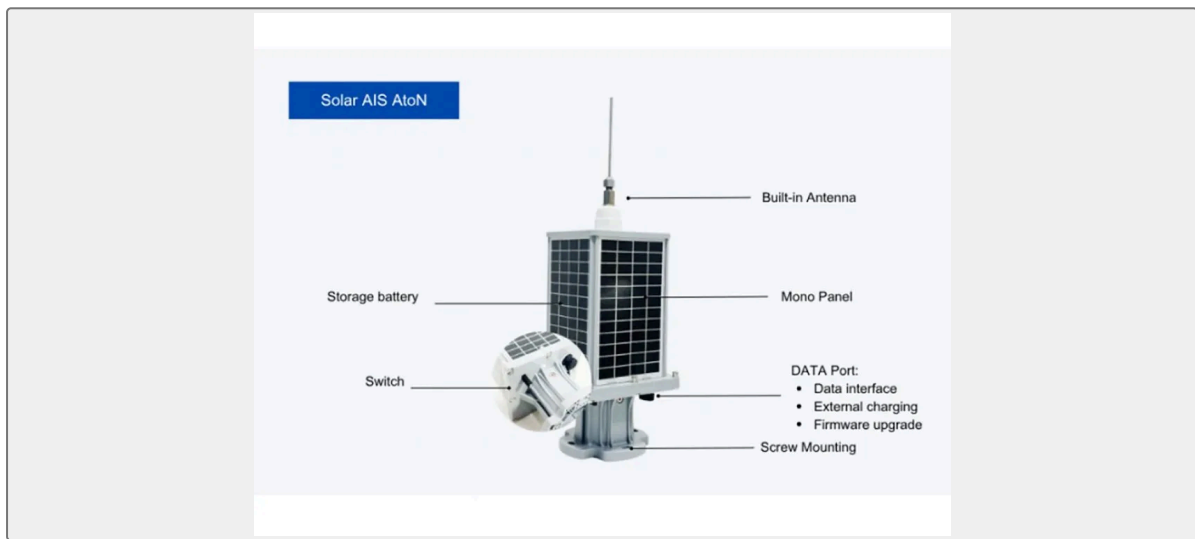
**High Battery Capacity:** The battery has a capacity of  $\geq 100\text{Wh}$ .

**Accuracy in Testing:** Open-circuit testing of solar panels and battery voltage ensures accurate measurements.

**Protection Features:** Includes short-circuit and reverse polarity protection.

**Low Power Consumption:** The AIS transmits at 6W, Average power consumption  $\leq 0.05\text{W}$ .

**Robust Antenna:** Uses a high-gain omnidirectional antenna that provides strong communication capabilities, resistant to swaying, waterproof, anti-corrosive, and UV-resistant, ensuring high reliability of the device



## TECHNICAL DATA

Category	Specification	Details
Overall Features	Operating Voltage	DC: 5.5V—8.3V
	Solar Panels	Vertical: 4x1.8W
	Operating Temperature	-35°C to +60°C
	Parameter Loading	RS232
	Waterproof Level	IP68
	Weight	$\leq 2.5$ kg
	Dimensions	345mm x 122mm x 122mm
	Packaging Dimensions	500mm x 200mm x 200mm
	Continuous Operation in Overcast/Rainy Conditions	$\geq 30$ days

AIS Features	Operating Frequency	"161.975MHz, 162.025MHz"
	Modulation Mode	GMSK/FSK
	Frequency Error	±0.5kHz
	Transmission Power	1W 2W 5W 6W 12.5W
	Average Power Consumption	Continuous mode ≤1W (Low power mode ≤0.7W)
	Message Format	"Messages 21, 6 adjustable, supports multiple formats"
	Operating Mode	"Default Mode Three RATDMA (FATDMA, RATDMA, SOTDMA adjustable)"
Battery Features	Battery Type	Lithium Battery
	Battery Capacity	≥100Wh

