

# Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

## MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

# VHF DSC (Class-B)

VHF DSC (Class-B) (1).Main function 1.General call 2.DSC System Distress call Distress acknowledgement call Distress relay call Individual call Position request call...

ISO9001 Supplier

Class Certificate

Export Supply



### Key Highlights

Category	Marine Communication And Navigation Equipment
Standard	EN
Weight / Size	72 (2).Technical Specifications 1.Overall Specifications Frequency Range...
Certificate	CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.



Technical Specifications			
<b>Category</b>	Marine Communication And Navigation Equipment	<b>Model / SKU</b>	VHF-DSC-Class-B
<b>Standard</b>	EN	<b>Weight / Size</b>	72 (2).Technical Specifications 1.Overall Specifications Frequency Range : Tx : 156.025-157.425MHz Rx : 156.050-163.275MHz Modulation method : FM ( 16K0G3E ) DSC ( 16K0G2B ) Receiving system : Super heterodyne double conversion Frequency tolerance : $\pm 10\text{ppm}$ ( -20°C+60°C ) Power Supply :DC13.8V ( $\pm 15\%$ ) Antenna impedance : 50 $\Omega$ Output impedance : ( Audio ) 8 $\Omega$ Input impedance : ( Microphone ) 2K $\Omega$ Dimensions : W ( 153 ) ×H ( 67 ) ×D ( 132 ) Weight : 830g ( $\pm 2\%$ ) 2.Transmitter Specifications Output power : 25W / 1W Modulation limit : $\leq \pm 5\text{KHz}$ Modulation sensitivity : 17mV $\pm 10\text{mV}$ Audio distortion : $\leq 7\%$ Adjacent channel selectivity : $\geq 70\text{dB}$ Spurious emissions : $\leq -53\text{dB}$ Residual modulation :
<b>Certificate</b>	CCS	<b>Warranty</b>	12 Months unless specified otherwise
<b>Origin</b>	China		

**CONTENTS**

- VHF DSC (Class-B)
- (1).Main function
- (2).Technical Specifications
- Residual modulation :

## VHF DSC (Class-B)

### (1).Main function

1.General call

2.DSC System

Distress call

Distress acknowledgement call

Distress relay call

Individual call

Position request call

Position to send call



**Individual acknowledgement call**  
**Group Call**  
**All ships call**  
**Sea area call**  
**Semi-automatic telephone service**  
**DSC test**  
**3.Collision Avoidance alarm display**  
**4.Weather alarm (American weather Bureau)**  
**5.Priority scan**  
**6.Dual-Watch**  
**7.Thr- Watch**  
**8.Timing clock alarm**  
**9.64 waypoints stored**  
**10.64 common using ID storage**  
**11.Navigation function**  
**12.Automatically record incoming messages**  
**Distress messages: 32**  
**Other messages: 32**  
**Collision Avoidance alarm messages: 72**

## (2). Technical Specifications

### 1.Overall Specifications

**Frequency Range : Tx : 156.025-157.425MHz**  
**Rx : 156.050-163.275MHz**  
**Modulation method : FM ( 16K0G3E ) DSC ( 16K0G2B )**  
**Receiving system : Super heterodyne double conversion**  
**Frequency tolerance :  $\pm 10$ ppm ( -20°C+60°C )**  
**Power Supply :DC13.8V (  $\pm 15\%$  )**  
**Antenna impedance : 50 $\Omega$**   
**Output impedance : ( Audio ) 8 $\Omega$**   
**Input impedance : ( Microphone ) 2K $\Omega$**   
**Dimensions : W ( 153 ) ×H ( 67 ) ×D ( 132 )**  
**Weight : 830g (  $\pm 2\%$  )**

### 2.Transmitter Specifications

**Output power : 25W / 1W**  
**Modulation limit :  $\leq \pm 5$ KHz**  
**Modulation sensitivity : 17mV $\pm 10$ mV**  
**Audio distortion :  $\leq 7\%$**   
**Adjacent channel selectivity :  $\geq 70$ dB**  
**Spurious emissions :  $\leq -53$ dB**

### Residual modulation :

**$\geq 40$ dB**

**Current consumption : High power  $\leq 6.0$ A , Low power  $\leq 1.5$ A ( DC13.8V )**

### 3.Receiver Specifications

**Reference sensitivity :  $\leq 0.25$ uV ( 12dB SINAD )**  
**Squelch sensitivity :  $\leq 0.15$ uV**  
**Modulation receiver bandwidth :  $\geq 2 \times 5$ KHz**



**Deep squelch blocking threshold :  $\geq 5\text{KHz}$**   
**Adjacent channel selectivity :  $\geq 65\text{dB}$**   
**Intermodulation rejection ratio :  $\geq 58\text{dB}$**   
**Spurious response :  $\geq 65\text{dB}$**   
**Audio output power :  $\geq 2\text{W}$  (  $8\Omega$  )**  
**Audio distortion :  $\leq 7\%$**   
**GPS Output format : NMEA0183 ( 2.0 / 3.01 )**

**Note: Specifications are subject to change without notice.**