

ZN30604 High-Power Transmitting Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30604
Type: High-Power Transmitting Antenna
Frequency Range: 10kHz - 30MHz

The ZN30604 High-Power Transmitting Antenna is a newly developed product by Beijing Da Ze Technology. It operates over a wide frequency range of 10kHz to 30MHz, with the ability to handle high power (up to 2000W). The antenna has a low VSWR, adjustable antenna height, and can be easily transported, installed, and moved. It is commonly used in electric field radiation sensitivity testing and is ideal for outdoor testing. The ZN30604 antenna is a domestic alternative to similar imported products, featuring fully independent intellectual property rights.

2. Technical Specifications

Parameter	Specification
Frequency Range	10kHz - 30MHz
Antenna Impedance	50Ω
Input Connector	7/16 interface
VSWR	≤ 2 (average)
Power Injection	≤ 2000W
Working Temperature	-10°C to 30°C
Antenna Operation Mode	Horizontal, Vertical
Antenna Dimensions	1880mm × 730mm × 110mm
Antenna Weight	Approx. 18.5kg
Tripod Weight	Approx. 6kg
Packaging Box Dimensions	810mm × 540mm × 160mm
Packaging Box Weight	Approx. 29.1kg

3. Key Features

- **Wide Frequency Range:** Operates from 10kHz to 30MHz, suitable for a wide range of applications.
 - **High Power Capacity:** Can handle up to 2000W of continuous power input.
 - **Adjustable Antenna Height:** Allows adjustment of the antenna height for optimal testing conditions.
 - **Portability:** The antenna mast is detachable, making transportation and installation easy.
 - **Durable Design:** Built for outdoor use, ensuring robust performance in various environments.
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4. Standard Accessories

Item	Quantity
ZN30604 Antenna (main unit)	1 set
Antenna Rods	4 units
Antenna Support Rod	1 unit
Tripod Connector	1 unit
M8 Hand-Tight Screw	1 unit
Tripod	1 unit
High-Power RF Cable (optional)	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy

5. Operating Instructions

- **Antenna Height Adjustment:** Raise the middle rod of the tripod to the desired height, then tighten the locking screw to secure it.
- **Antenna Installation:** Install the antenna support rod and tripod connector at the correct positions. Fix the rods and tighten the hand-tight screw to secure the antenna. Mount the antenna rods to the main unit, ensuring all components are securely fastened.
- **Field Strength Testing:** Choose the minimum input power to achieve the required electric field strength for testing. The object under test should be placed at the

designated distance from the antenna.

- **Usage Precautions:**

1. Do not exceed 2000W of continuous power to avoid damage and fire hazards.
 2. Avoid proximity to the working antenna to prevent interference with the generated field strength.
 3. Do not touch the antenna during operation, as the generated electromagnetic field may harm humans.
 4. Ensure the tripod is firmly fixed, and handle the antenna carefully during installation and disassembly to avoid damage.
 5. Store the antenna in a dry environment free from corrosive gases.
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6. Maintenance and Care

- Keep the interior of the antenna clean and free from dust.
- Periodically remove the back panel to clean out any dust inside to ensure proper ventilation and cooling.
- **Warranty Period:** 18 months from the date of shipment.

7. Product Photo



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