



High Performance UPS Isolation Transformer For Wind Power Grid Integration

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: JXRMT
- Certification: CE
- Model Number: ZGS
- Minimum Order Quantity: 6 sets
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



ZGS-Z.F SERIES WIND POWER BOX TYPE SUBSTATION

Product Specification

- Rated Capacity: 800-1600 KVA
- Voltage Ratio: $38.5 \pm 2 \times 2.5\% / 0.69$ KV
- Impedance Voltage: 4.5%-6.5%
- Cooling Method: ONAN
- Protection Level: IP54
- No-load Current: 0.6%
- Highlight: **High Performance UPS Isolation Transformer ,
1600kVA UPS Isolation Transformer ,
IP54 isolated ups**

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Product Description

High-Performance UPS Isolation Transformer for Wind Power Grid Integration

Product Description:

The ZGS-Z F Series Wind Power Box-Type Substation is a state-of-the-art product designed for modern wind power generation systems. Tailored for wind turbine applications, this substation efficiently transforms low-voltage energy generated by turbines (0.6-0.69kV) into a higher voltage (up to 35kV or 10kV), ready for grid integration. It is engineered with the highest standards of safety, reliability, and efficiency, and offers exceptional load loss and no-load loss characteristics. With its fully sealed, low-maintenance design, the substation provides long-term operation and protection against harsh environmental conditions such as extreme weather and dust. The IP54 protection rating ensures its suitability for outdoor installations, making it ideal for wind farms across a wide range of environmental conditions.

THE MAIN TECHNICAL PARAMETERS

Serial number	Items	Guaranteed value
1	Type	Three-phase, double-wound, oil-immersed self-cooling, low loss, fully sealed and maintenance-free
2	Maximum operating voltage (kV)	40.5
3	Rated frequency (Hz)	50
4	Rated capacity (kVA)	800-1600
5	Voltage ratio (kV)	38.5±2*2.5%/0.69
6	Vector Group	D,yn11
7	Impedance voltage	4.5%-6.5%
8	Voltage regulation mode	Non-exciting tap-changer
9	Transformer oil	Karamay 45# insulation oil
10	Rated short-duration power frequency withstand voltage (kV)	95kV/1min
11	Peak lightning impulse withstand voltage (kV)	215
12	Cooling method	ONAN
13	Level of enclosure protection	Tank IP68, tank IP54
14	Temperature rise (k)	Coil: 63k, top oil: 53k
15	No-load current (%)	0.6%
16	Tone limit level (db)	No more than 50db

High voltage load switch performance table

Serial number	Items	Guaranteed value
1	Model number	ZGS-Z-F40.5/0.69
2	Voltage level (kV)	40.5
3	Maximum relative phase voltage (kV)	40.5
4	Maximum relative ground voltage (kV)	40.5
5	Rated short-duration power frequency withstand voltage	95kV/1min
6	Peak lightning impulse withstand voltage (kV)	200
7	Rated current (A)	630
8	Short-time withstand current (RMS -10 cycles)	20kA/2s
9	Rated breaking capacity (A)	630
10	Main loop resistance (μ)	Not greater than 150
11	Mechanical life (times)	Not less than 20000

High voltage fuse performance sheet

Serial number	Items	Guaranteed value
1	Model number	STR20-40.5
2	Rated voltage (kV)	40.5
3	Rated current (A)	100
4	Rated frequency (Hz)	50
5	Rated breaking capacity (kA)	40
6	Fuse current rating (A)	20 to 100 Optional

High voltage arrester performance table

Serial number	Items	Guaranteed value
1	Model number	HY5WZ-51/134
2	Rated voltage (kV)	51
3	Continuous operating voltage (kV)	40.8
4	Dc reference voltage (kV)	73
5	Leakage current at 0.75U _{1ma} (μA)	Not less than 30
6	8/20μS nominal discharge current residual voltage (kV)	Not less than 134
7	2000μS square wave current (amplitude, A)	Not less than 400
8	4/10μS high current Impulse Withstand current (kV)	Not less than 65
9	Local discharge under 1.05U _c	Less than 14PC

Application:

This substation is specifically designed for use in wind power systems, providing a reliable and efficient means of transmitting power from wind turbines to the grid. It is suited for installation in both rural and urban wind farms, supporting renewable energy initiatives and reducing reliance on conventional power sources. The ZGS-Z F Series is ideal for environments with harsh weather conditions, offering superior protection against environmental factors like dust, rain, and extreme temperatures. Its maintenance-free design and long service life make it a preferred choice for large-scale wind power projects, offering both safety and efficiency in energy transmission.

Shipping Methods

Supports global air and sea shipping

If you require more detailed product information or have customized requests, please contact us. Providing efficient service that satisfies our customers is our responsibility.



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