



SERVO MOTOR VOLTAGE STABILIZER BK-SJW SERIES 10KVA-120KVA

TO BE GLOBAL LEADER IN POWER SOLUTIONS



BK-SJW Series 3 phase Voltage Stabilizer

Product Overview

The BK-SJW Series Three-Phase Servo Voltage Stabilizer integrates a high-speed servo motor, intelligent control circuitry, and low-loss toroidal auto-transformer into a single, compact enclosure.

Purpose-built for harsh and highly variable grid environments, it delivers rock-solid, utility-grade power to all downstream three-phase loads.

The series is deployed in industrial production lines, hyperscale data centers, commercial complexes, medical imaging centers, renewable-energy generating stations, and any other facilities where three-phase voltage stability is mission-critical.

Applications

Industrial Manufacturing

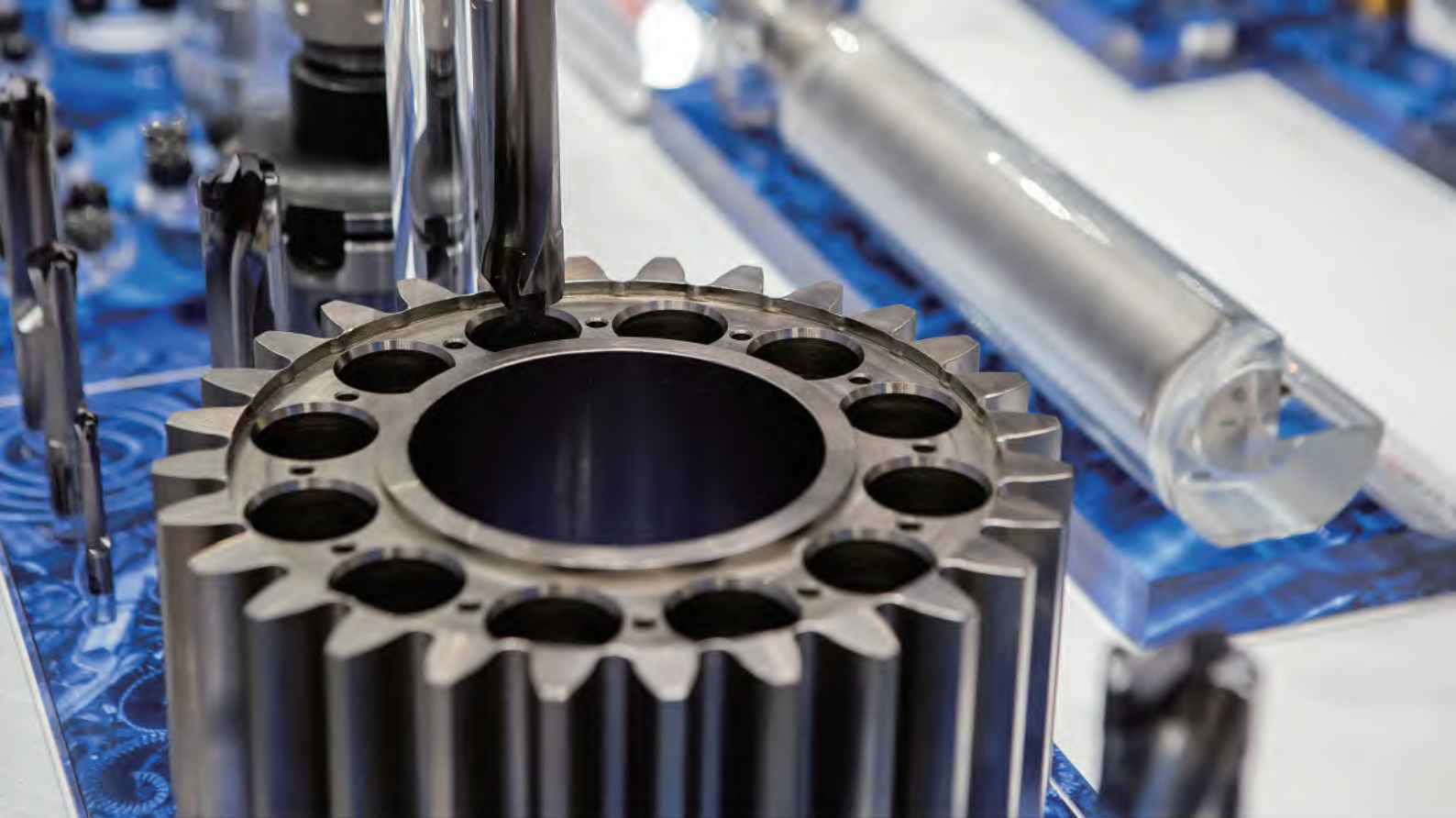
Provides rock-solid three-phase voltage to motors, CNC machines, assembly lines, and cranes, ensuring continuous production and consistent product quality.

Medical & Scientific Research

Delivers stable three-phase power to MRI scanners, CT systems, and precision laboratory instruments, guaranteeing accurate diagnostics and reliable experiments.

Commercial & Public Infrastructure

Maintains steady voltage for central HVAC, elevators in shopping malls, and electrical systems in metro stations and airports, securing uninterrupted daily operations.



Technical Advantages

Precision Mechanical Adjustment

A servo motor drives a carbon brush mechanism for voltage regulation. The mechanical transmission ensures linear output voltage adjustment, with a voltage regulation accuracy of up to $\pm 3\%$.

Instantaneous Response to Fluctuations

Equipped with a highly sensitive voltage sampling and servo drive system, the servo motor quickly drives the carbon brushes to adjust the position of the autovoltage regulator when the input voltage fluctuates.

Strong Load Adaptability

The design offers strong power handling capabilities and stable operation under various load types, including resistive, inductive, and capacitive loads.

Proven and Reliable Structure

Core components, including the servo motor, autovoltage regulator, and transmission mechanism, utilize proven and reliable technologies. The simple mechanical structure is easy to maintain and has a low failure rate.

Product Features

Three-Phase Precision Voltage Regulator

Utilizing three-phase independent servo motors and precision control technology, this system ensures precise and stable output voltage, achieving a voltage regulation accuracy of $\pm 3\%$.

Efficient Response

Equipped with a high-performance voltage sampling and servo drive system, it responds quickly and adjusts three-phase voltage quickly.

Integrated Safety Protection

Features include three-phase short-circuit protection, overload protection, and temperature protection.

Delay and Synchronization Protection

A delayed start function reduces the impact on the power grid during device startup.

PRODUCT CATALOG

UPS System
Voltage Stabilizer
Transformer

VFD Inverter
Soft Starter
Solar Inverter

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