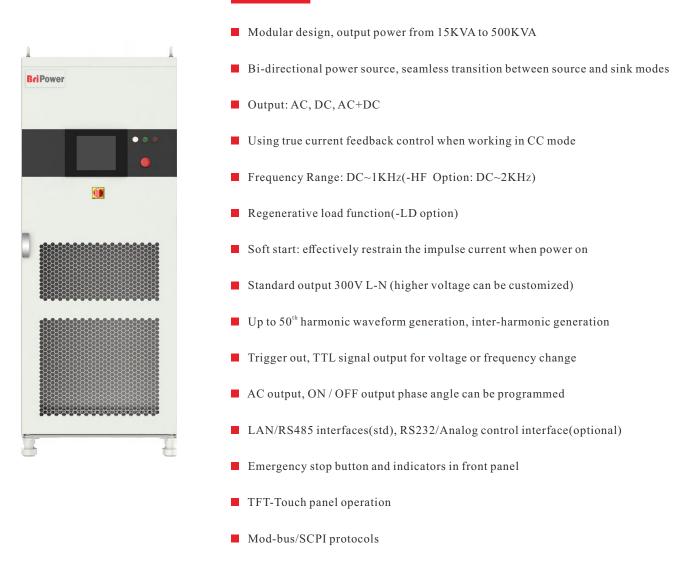
KGS Series Programmable AC/DC Power Supply

Features



CE conformity

Overview

The Bripower KGS series is a high-performance AC/DC power source, using SiC MOSFET PWM technology, which contains multi output power levels form 15KVA to 500KVA .with an output frequency range from DC to 2KHz (standard 1KHz, 2KHz with -HF o-ption), standard output 300V L-N (higher voltage can be customized).

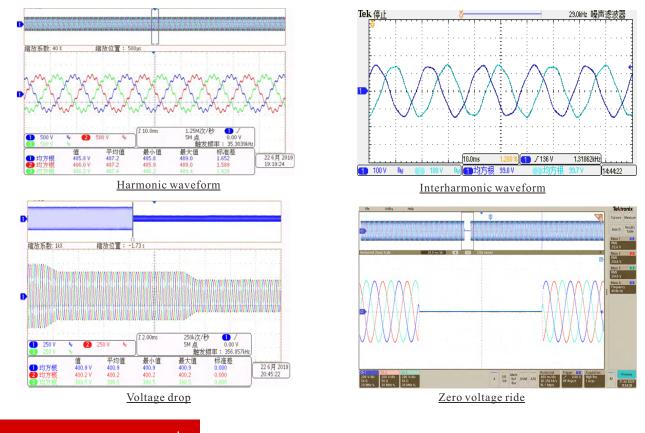
KGS series uses bi-directional design, which makes it possible to be used as grid simulator to test distributed generation systems. KGS Series is well suited for aerospace applications. Remote control interfaces and SCPI command language are provided for easy integration into ATE systems.

KGS series adopts dual DSP+FPGA design, with powerful calculation and control capabilities, and can display and save measured values at 10K/s sampling. The KGS series adopts optical fiber communication and performs multiple monitoring and protection of all main components, communication connections and systems. it is the most reliable power supply product in the industry. With touch panel on the front panel, users can control the power source through GUI software. System status indicators and emergency stop button are installed on the front panel. LAN and Rs485 standard interface, optional RS232 and analog control interfaces are available for automated test applications.



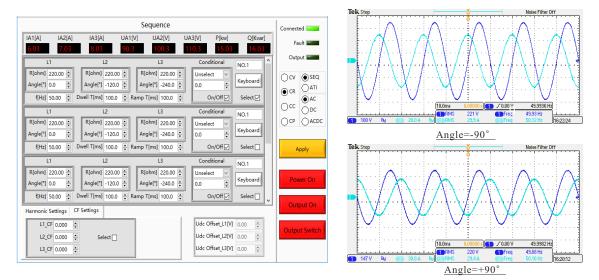
Grid Simulation

KGS series can be used as a grid simulator to test distributed generation systems, such as the electrical characteristics of energy storage PCS, PV inverter, etc, The simulation functions include voltage and frequency fluctuation, voltage drop, low/zero voltage, three-phase unbalance, harmonic and inter-harmonic etc. KGS series can meet the requirements of grid tied DG regulations testing, such as: grid voltage abnormality test, grid frequency abnormality test, low/zero voltage ride through test, anti-islanding test, etc. KGS series provides standard software that can simulate various real-world power grid operating conditions and supports multiple parameter settings.



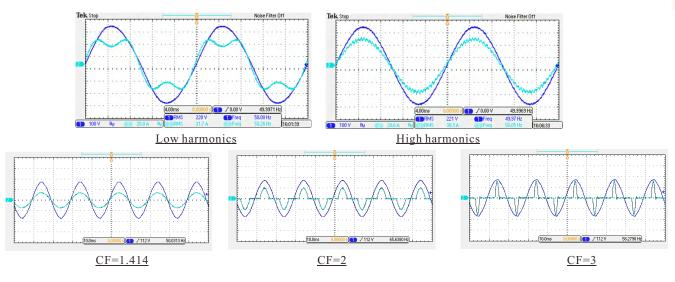
Re-generative AC Load -LD option¹

KGS series with -LD option can be used as regenerative AC electronic load. This function consists of CR mode, Rectifier mode, CC/ CP phase lead/lag mode.CR mode is used to simulate three-phase resistive loads, the CR mode and three-phase resistance parameters can be set through the panel and can realize the program of resistance sequence. Rectifier mode can be used to simulate non-linear loads, the CC/CP mode and CF(settomg range:1.414~3) parameters can be set through the panel. CC/CP phase lead/lagmode can simulate sinusoidal current, Constant current CC and constant power CP modes are available to adjust load current or power, phase angle can be set from 90° to -90° simulating the voltage and current conditions under inductive and capacitive loads.









¹KGS -LD can still output stable and reliable current waveform even when the input voltage is not pure sine wave or the sine wave has large distortion.

Avinocs Power Line Simulation

The KGS series meets the requirements of avionics bus simulation, and can simulate working conditions including normal working, power interruption (conversion), abnormal power supply, emergency power supply, startup, power failure, etc. to meet the requirements of MIL-STD-704 and other test regulations. In addition, remote control interfaces and SCPI command language are provided for easy integration into ATE systems.

IEC Related Test Applications

KGS series can meet the requirements for AC power in IEC 61000 3-2,3-3,3-11,3-12,4-11,4-13 and other standard tests.

Current Source Mode

The KGS Series uses true current feedback control when working in Current source mode. It is different from power supplies using voltage feedback with constant current mode, which is called voltage controlled current. The voltage controlled current power supplies maintain setting current value by adjusting output voltage and have relatively long response time to sudden impedance changes, which typically results in dynamic current overshoot or undershoot as the load impedance changes. KGS series working in CC mode does not have such problem and will always maintain the current at the setting value, regardless of transient load conditions.

Modular Design

The KGS series power supply contains one or more 15KVA power modules. Each power module is fully self-contained and forms a complete AC to AC or AC to DC converter.



Graphical User Interface

GUI software is installed in front touch panel, which uses Windows OS. The software provides following functions:

- Output limits and settings
- Sequence output settings

The output phase voltage, angle, frequency, ON/OFF phase angle, dwell time,

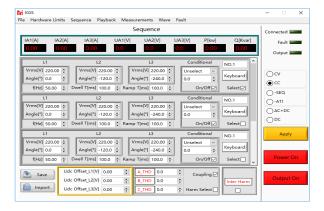
switching time and other parameters of the power supply can be set.



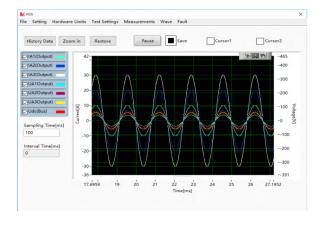
- Generate harmonic and inter-harmonic waveforms

Up to 50th harmonic waveform generation, inter-harmonic generation

- Real time display measurements: voltage, current, power, etc.
- Capture, display and save output voltage and current waveforms.
- Display power source faults



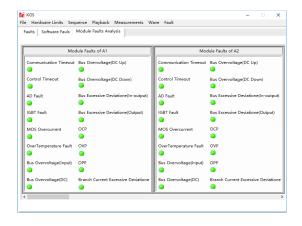
Sequence Mode



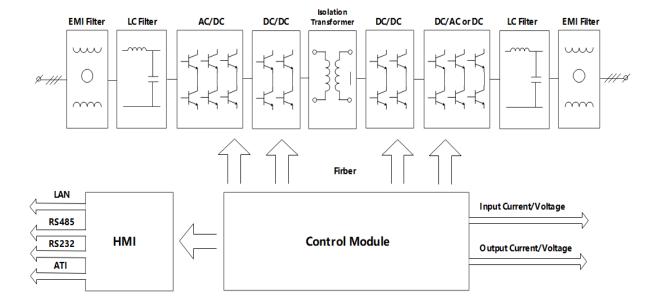
Waveform Display

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Monic and inter-harmonic generation



Fault Display



Block Diagram



General Specification (customized unit specification will be shown in the quotation)

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| DC OutputImage: Control of the series of the se | Current Resolution | 0. 1A | | | | |
| Voltage Range0-550V (std), customized voltage up to 1125VCurrent RangeMax 25A per 15KVA moduleVoltage Accuracy0. 2%FSCurrent Accuracy0. 1%FSVoltage Ripple0. 1%FSAC+DC ModeMax Power, Voltage Current are the same as DC ModeAC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.1%FSPrequency Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingPertentureOperating: 0-40°C, Storage: -20-85°C | Frequency Resolution | 0.01HZ(~100HZ), 0.05HZ(>100HZ) | | | | |
| Current RangeMax 25A per 15KVA moduleVoltage Accuracy0. 2%FSCurrent Accuracy0. 1%FSVoltage Ripple0. 1%FSAC+DC ModeMax Power, Voltage Current are the same as DC ModeAC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSPrequency Measurement Accuracy0.1%FSDC Current Measurement Accuracy0.1%FSEnequency Measurement Accuracy0.01%+0.01HZOthersProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | DC Output | | | | | |
| Voltage Accuracy0. 2%FSCurrent Accuracy0. 1%FSVoltage Ripple0. 1%FSAC+DC ModeMax Power, Voltage Current are the same as DC ModeAC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Voltage Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | Voltage Range | 0-550V (std), customized voltage up to 1125V | | | | |
| Current Accuracy0. 1%FSVoltage Ripple0. 1%FSAC+DC ModeMax Power, Voltage Current are the same as DC ModeAC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSOthers | Current Range | Max 25A per 15KVA module | | | | |
| Voltage Ripple0. 1%FSAC+DC ModeMax Power, Voltage Current are the same as DC ModeAC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSDC Current Measurement Accuracy0.1%FSDC Current Measurement Accuracy0.1%FSPrequency Measurement Accuracy0.1%+0.01HZOthersIProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | Voltage Accuracy | 0. 2%FS | | | | |
| AC+DC ModeMax Power, Voltage Current are the same as DC ModeAC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSOthers0.01%+0.01HZProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | Current Accuracy | 0. 1%FS | | | | |
| AC Voltage Measurement Accuracy0.3%FSAC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.1%FSOthers0.01%+0.01HZProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | Voltage Ripple | 0. 1%FS | | | | |
| AC Current Measurement Accuracy0.3%FSDC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.01%+0.01HZOthers0.01%+0.01HZProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | AC+DC Mode | Max Power, Voltage Current are the same as DC Mode | | | | |
| DC Voltage Measurement Accuracy0.2%FSDC Current Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.01%+0.01HZOthersProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | AC Voltage Measurement Accuracy | 0.3%FS | | | | |
| DC Current Measurement Accuracy0.1%FSFrequency Measurement Accuracy0.01%+0.01HZOthersProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | AC Current Measurement Accuracy | 0.3%FS | | | | |
| Frequency Measurement Accuracy0. 01%+0. 01HZOthersProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | DC Voltage Measurement Accuracy | 0.2%FS | | | | |
| OthersProtectionOVP, OCP, OTPCE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C, Storage: -20~85°C | DC Current Measurement Accuracy | 0.1%FS | | | | |
| Protection OVP, OCP, OTP CE Conformity EN 61010, EN 61326 Cooling Forced Air Cooling Temperature Operating: 0~40°C, Storage: -20~85°C | Frequency Measurement Accuracy | 0. 01%+0. 01HZ | | | | |
| CE ConformityEN 61010, EN 61326CoolingForced Air CoolingTemperatureOperating: 0~40°C,Storage: -20~85°C | Others | | | | | |
| CoolingForced Air CoolingTemperatureOperating: 0~40°C,Storage: -20~85°C | Protection | OVP, OCP, OTP | | | | |
| Temperature Operating: 0~40°C,Storage: -20~85°C | CE Conformity | EN 61010, EN 61326 | | | | |
| | Cooling | Forced Air Cooling | | | | |
| Operating Humidity 20-00% DH (None Condensing) | Temperature | Operating: 0~40°C,Storage: -20~85°C | | | | |
| | Operating Humidity | 20-90%RH (None Condensing) | | | | |





| Model | KGS 15 | KGS 45 | KGS 90 | | | | |
|---------------------|--------------|------------------------------|----------------|--|--|--|--|
| AC Output Mode | Single Phase | Single Phase or Three Phases | | | | | |
| AC Output Power | 15KVA | 45KVA | 90KVA | | | | |
| AC Output Current | 50A | 50A/Ph | 100A/Ph | | | | |
| DC Output Power | 10KW | 30KW | 60KW | | | | |
| DC Output Current | 25A | 75A | 150A | | | | |
| Dimension(w*D*H mm) | 800*900*1700 | 800*900*1700 | 2*800*900*1700 | | | | |
| Weight | <500kg | <550kg | <950kg | | | | |

*other Power/Voltage Level can be offered. Please consult factory

AC Input Configuration

Please specify the input voltage (L-L) /208, Input Voltage $208V \pm 10\%$, 3-phase /230, Input Voltage $230V \pm 10\%$, 3-phase /380, Input Voltage $380V \pm 10\%$, 3-phase /400, Input Voltage $400V \pm 10\%$, 3-phase /480, Input Voltage $480V \pm 10\%$, 3-phase

Options

- -232 RS232 program interface
- -ATI Analog program interface (0~5V)
- -1P Add single phase output
- -HF Output frequency range up to 2KHZ
- -LD Regenerative load function
- -HV1 AC output voltage extended to $0{\sim}375V$
- -HV2 Higher output voltage consult factory

Model Configuration

KGS AAA-BBB-CCC-DDD/EEE AAA: Power, KVA BBB: Voltage range (L-N), V (std, 300V L-N) CCC: Current range, A DDD: Option EEE: Input configuration

Contact us

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About Bripower

Bridge Technology is a company focusing on business of power supplies and test systems for new energy applications. We are devoted to providing high quality products and solutions for customers.

Bridge Technology has a top-class R&D team in China, works on modularization and standardization power supplies and systems. We have sales, technical support, R&D and manufacture in Shanghai, Nanjing and Chengdu.

Nanjing Bridge New Energy Technology was founded on Jan 12th, 2016, focusing on R&D and manufacturing Bripower brand power systems, including bi-directional AC sources for grid simulation, bi-directional DC sources for battery simulation, and regenerative loads. The Bripower AC&DC power systems are widely used in new energy and related fields.

www.bripower.cn contact@bridgettech.com.sg