



The GKP-2302 provides both precise AC/DC power source and accurate measurement and analysis in one box. As a power source, it can generate the specified DC, AC, or AC +DC voltage, and supply to the applications.

When an application is connected, GKP-2302 can also perform the real time measurement and analysis of voltage, current, power factor, crest factor, and so on. The results are displayed on the LCD display. The inrush current occurring to a capacitive load at power up instant can be measured.

In addition to the regular sine wave, there are 16 types of built-in arbitrary waveforms can be applied to output. This will fulfill the specific requirements risen by different application and purpose.

The sequence function allows user to edit the output voltage point by point by operating the front panel. There are totally 255 points for each memory. Between each two points, one among four transition options, hold, sweep, constant and keep, can be selected.

Sequence can be also edited by the dedicated PC software. The built-in DC, sine wave, square wave, 16 arbitrary waveforms and waveforms captured by USB or GBIP interface all can be combined to compose a sequence.

To adapt to more applications, GKP-2302 can generate the power source controlled by external signal which is fed into the EXT terminal on the back side. The synchronization signal fed into the SYNC terminal can trigger the output to align with synchronizing signal.

The Limiter function allows user to establish the upper and lower limits for efficiently inspecting.

GKP-2302 is also an amplifier. In the AC-EXT or AC+DC-EXT modes, the signal fed into EXT SIG IN and EXT SYNC IN is amplified at the output.

The dedicated PC software is designed to remotely control panel setting, create and edit the arbitrary waveform and sequence. The multiple interfaces for USB (USBTMC) and GBIP are available in rear panel.

## GKP-2302

### FEATURES

- Output Capacity : 3kVA
- Output Mode : AC and AC+ DC Combin
- SignalSources : Internal (INT) 、 External (EXT) 、 Internal + External (ADD) 、 VCA and Synchronization(SYNC)
- Arbitrary Waveform Power Output
- Power Amplifier For External Signals
- Measurement Functions : Voltage, Current, Power, Frequency, Power Factor, CF and Harmonic Current
- Capacitor Input Load Supported
- Sequence Function Allows Programming of Output Patterns
- Limiter Function (Upper/Lower Limits Function)
- 5 Sets of SAVE/RECALL Memory
- Output On/Off Switch
- USB(USBTMC)/GPIB for Remote Control



Rear Panel

### APPLICATIONS

- Laboratories and Educational Facilities
- Product Testing and Quality Assurance
- Service Operation and Post-Sales Support
- Product Development and Debugging

SPECIFICATIONS			
MAXIMUM OUTPUT CAPACITY	AC DC	Input(100~250V) Input(100~250V)	3kVA 3kW
OUTPUT VOLTAGE	AC	100V/200V	0.0~155.0V/0.0~310.0V
OUTPUT MAX. CURRENT	AC DC	100V/200V 100V/200V	30A/15A 30A/15A
OUTPUT MAX PEAK CURRENT		100V/200V	120A/60A
FREQUENCY SETTING RANGE	AC Mode AC+DC Mode	40Hz~550Hz 1Hz~550Hz	
FREQUENCY SETTING RESOLUTION	0.1Hz OUTPUT VOLTAGE STABILITY (PHASE VOLTAGE) Line Regulation Load Regulation	±0.01% SETTING (23°C±5°C)  ≤±0.15% ≤0.15V/±0.30V(DC) ≤0.5V/ ±1.0V(4Hz~550Hz)	
WAVEFORM OUTPUT	SINE WAVE / ARBITRARY WAVE(16Types) / Clipped SINE WAVE(3 Types)		
MEASUREMENT			
	Frequency Counter	RANGE 1Hz~550Hz(AC+DC Mode)	RESOLUTION 0.1Hz ACCURACY ±0.01% Setting(23°C±5°C)
	RMS Voltage(AC)	Full Scale 100V : 250.0V rms Full Scale 200V : 500.0V rms	0.1Vrms ±(0.7% of rdg)+0.9V(40Hz~550Hz)
	RMS Current(AC)	Full Scale 100V : 40A Full Scale 200V : 20A	0.1Vrms ±(0.7% of rdg)+1.8V(40Hz~550Hz)
	DC Current Average(Avg)	Full Scale 100V : ±40A Full Scale 200V : ±20A	0.01Arms ±(0.7% of rdg+0.08A);40Hz~550Hz
	Power Effective(W)	Full Scale 100V : 3600W Full Scale 200V : 3600W	0.01A ±(0.5% of rdg + 0.08A)
	Synchronizing Frequency	38.0Hz~525.0Hz	0.01A ±0.5% of rdg + 0.04A
			0.1W ±(1% of rdg)+1.5W
			1W(1000W or Higher) ±0.2Hz
MEMORY	Save/Recall 5 sets		
POWER SOURCE	AC100V~230V±10%(Under 250V) ; 50Hz/60Hz±2Hz		
INTERFACE	USB(USBTMC) Standard、RS-232、GPIO(IEEE488.1) (OPTION)		
DIMENSIONS & WEIGHT	430(W) x 398(H) x 562(D) mm ; Approx 50kg		

Specifications subject to change without notice.

PS-2302GD1DH

ORDERING INFORMATION	
GKP-2302	3kVA Programmable A.C./D.C. Power Source

ACCESSORIES	
User Manual x 1, Power Cord x 1, Optional Accessories, GTL-248 GPIB Cable (2m), GTL-246 USB Cable, USB 2.0A-B TYPE CABLE, 4P GTL-251 GPIB-USB-HS (High Speed)	
FREE DOWNLOAD	
Driver	LabView Driver

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