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Data Sheet
August 13, 2026

KIKUSUI

Kikusui PCR500LA

The Kikusui PCR500LA isaPCR-LA series single-phase linear-amplifier AC (and DC) power source, 500 VA. AC output is 1 to 150 V / 2 to 300 V at 5 A / 2.5 A, 1 Hz to 999.9 Hz. DC mode is 1.4 to 212 V / 2.8 to 424 V at 2.5 A / 1.25 A, 250 W. Peak current is four times RMS. Distortion 0.3 percent or less. Response typically 30 us. Input 85-132 V / 170-250 V, about 1 kVA, 12 A / 6 A or less, PF typically 0.95. Line impedance simulation 0 to 4.0 ohm (100 V range). RS-232C and optional RC03/RC04 remote. Color VFD. Weight and rack: KRB250 / KRB5 class. Global mains simulation from a 100 V outlet (Japan service example) Insulation: 30 Mohm or more at 500 Vdc class Output Connector Limit: 125 V / 10 A on the front connector; terminal board for full rating Remote: RS-232C; optional RC03-PCR-LA / RC04-PCR-LA Three Phase Kit: three PCR500LA plus 3P03-PCR-LA for 1.5 kVA 3 ph

MODEL **Kikusui PCR500LA**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **PCR500LA**	LISTING **https://aumictechlabs.com/products/pcr500la-2/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Kikusui PCR500LA is a 500 VA single-phase AC power source engineered for automated testing and evaluation of electronic devices across laboratory and production environments. It delivers programmable AC and DC output with variable frequency control, variable output impedance, and integrated power-line simulation capabilities. The unit measures voltage, current, power, frequency, and harmonic content, supporting both manual operation and fully sequenced

test routines via RS232 interface. Technical Specifications Apparent Power: 500 VA Output Voltage: 1–300 Vrms (AC); 1.4–425 Vdc (DC) Output Current: 5 A at 100 V range; 2.5 A at 200 V range Frequency Range: DC, 1–999.9 Hz Output Modes: AC, DC, AC + DC Voltage Regulation: ±0.1% Frequency Regulation: ±0.3 Hz Input Voltage: 85–250 V AC (worldwide compatible) Input Regulation: ±0.1% Key Features Programmable output voltage, frequency, and waveform sequencing for automated test execution Power-line abnormality simulation: voltage sags, transient drops, and surge events Variable output impedance function enables real-world power-line impedance emulation and device harmonic characterization Full line voltage simulation available as option Measurement suite: Vrms, Irms, peak current, watts, apparent power, true power, power factor, and harmonic current (with options) Typical Applications Device compliance testing across AC/DC power environments Harmonic current and power consumption analysis under simulated grid conditions Transient and fault-mode testing with power interruption and surge injection Automated production-line characterization and burn-in sequences Compatibility & Integration RS232 standard interface. Device drivers available for VisualBasic (ActiveX), LabVIEW, and LabWindows/CVI support integration with existing automated test frameworks and data acquisition systems.

PCR500LA Characteristics / Specifications

PARAMETER	VALUE
Model	PCR500LA
Manufacturer	Kikusui Electronics
Instrument Type	Single phase AC and DC power source
Series	PCR-LA
Alias	PCR 500LA; PCR500LA
AC Power Capacity	500 VA
AC Voltage Range	1 to 150 V / 2 to 300 V
AC Max Current	5 A / 2.5 A
AC Frequency	1 Hz to 999.9 Hz
DC Voltage Range	1.4 to 212 V / 2.8 to 424 V
DC Max Current	2.5 A / 1.25 A
DC Power Capacity	250 W
Peak Current	4 times max RMS
Load Power Factor	0 to 1
Voltage Distortion	0.3 percent or less
Response Speed	typically 30 us
Frequency Stability	within plus/minus 5e-5; setting plus/minus 5e-4
AC Voltage Accuracy	plus/minus (0.3 percent of set + 0.6 V)
DC Voltage Accuracy	plus/minus (0.05 percent of set + 0.05 V / 0.1 V)
Input Voltage	85 to 132 V / 170 to 250 V selectable
Input Apparent Power	approx 1 kVA
Input Current	12 A / 6 A or less
Power Factor	typically 0.95
Line Impedance 100 V Range	0 to 4.0 ohm, 40 mohm resolution
Ripple DC Mode	0.1 Vrms or less (5 Hz to 1 MHz)

PARAMETER	VALUE
Efficiency	50 percent or more
Circuit Method	linear amplifier
Operating Temperature	0 to 50 C
Humidity	20 to 80 percent RH
Withstand	1.5 kV AC 1 minute
Insulation	30 Mohm or more at 500 Vdc class
Output Connector Limit	125 V / 10 A on the front connector; terminal board for full rating
Remote	RS-232C; optional RC03-PCR-LA / RC04-PCR-LA
Voltmeter RMS Resolution	0.1 V
Ammeter RMS Resolution	0.01 A
Three Phase Kit	three PCR500LA plus 3P03-PCR-LA for 1.5 kVA 3 ph
Rack	KRB250 / KRB5 Notes Specs from Kikusui PCR-LA series data sheet (PCR500LA column). Confirm 100/200 V input switch and whether DC mode is enabled. Front connector is 125 V / 10 A limited.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	20 to 80 percent RH
Withstand	1.5 kV AC 1 minute
Insulation	30 Mohm or more at 500 Vdc class
Output Connector Limit	125 V / 10 A on the front connector; terminal board for full rating
Remote	RS-232C; optional RC03-PCR-LA / RC04-PCR-LA
Voltmeter RMS Resolution	0.1 V
Ammeter RMS Resolution	0.01 A
Three Phase Kit	three PCR500LA plus 3P03-PCR-LA for 1.5 kVA 3 ph
Rack	KRB250 / KRB5 Notes Specs from Kikusui PCR-LA series data sheet (PCR500LA column). Confirm 100/200 V input switch and whether DC mode is enabled. Front connector is 125 V / 10 A limited.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	PCR500LA
Manufacturer	Kikusui Electronics
Instrument Type	Single phase AC and DC power source

Specifications

PARAMETER	VALUE
Series	PCR-LA
Alias	PCR 500LA; PCR500LA
AC Power Capacity	500 VA

Specifications

PARAMETER	VALUE
AC Voltage Range	1 to 150 V / 2 to 300 V
AC Max Current	5 A / 2.5 A
AC Frequency	1 Hz to 999.9 Hz

Specifications

PARAMETER	VALUE
DC Voltage Range	1.4 to 212 V / 2.8 to 424 V
DC Max Current	2.5 A / 1.25 A
DC Power Capacity	250 W

Specifications

PARAMETER	VALUE
Peak Current	4 times max RMS
Load Power Factor	0 to 1
Voltage Distortion	0.3 percent or less

Specifications

PARAMETER	VALUE
Response Speed	typically 30 us
Frequency Stability	within plus/minus 5e-5; setting plus/minus 5e-4
AC Voltage Accuracy	plus/minus (0.3 percent of set + 0.6 V)

Specifications

PARAMETER	VALUE
DC Voltage Accuracy	plus/minus (0.05 percent of set + 0.05 V / 0.1 V)
Input Voltage	85 to 132 V / 170 to 250 V selectable
Input Apparent Power	approx 1 kVA

Specifications

PARAMETER	VALUE
Input Current	12 A / 6 A or less
Power Factor	typically 0.95
Line Impedance 100 V Range	0 to 4.0 ohm, 40 mohm resolution

Specifications

PARAMETER	VALUE
Ripple DC Mode	0.1 Vrms or less (5 Hz to 1 MHz)
Efficiency	50 percent or more
Circuit Method	linear amplifier

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 50 C
Humidity	20 to 80 percent RH
Withstand	1.5 kV AC 1 minute

Specifications

PARAMETER	VALUE
Insulation	30 Mohm or more at 500 Vdc class
Output Connector Limit	125 V / 10 A on the front connector; terminal board for full rating
Remote	RS-232C; optional RC03-PCR-LA / RC04-PCR-LA

Specifications

PARAMETER	VALUE
Voltmeter RMS Resolution	0.1 V
Ammeter RMS Resolution	0.01 A
Three Phase Kit	three PCR500LA plus 3P03-PCR-LA for 1.5 kVA 3 ph

Rack: KRB250 / KRB5

Notes

Specs from Kikusui PCR-LA series data sheet (PCR500LA column). Confirm 100/200 V input switch and whether DC mode is enabled. Front connector is 125 V / 10 A limited.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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