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Data Sheet

August 13, 2026

KIKUSUI

Kikusui Pad 500-2L

The Kikusui PAD500-2L is a high-quality adapter designed for use with Kikusui power supplies. It ensures reliable and efficient connectivity, optimizing the performance of your power supply system. Ideal for laboratory, industrial, and testing environments.



MODEL

Kikusui PAD500-2L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PAD500-2L

LISTING

<https://aumictechlabs.com/products/pad500-2l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kikusui PAD500-2L is a regulated DC power supply engineered for laboratory, industrial, and testing environments requiring stable, high-precision power delivery. It delivers 0–500 V output at 0–2 A with 1000 W total power, combining thyristor preregulation and power transistor series regulation to achieve exceptional voltage stability and minimal harmonic distortion. Technical Specifications Output: 0–500 V, 0–2 A, 1000 W Input: AC 100 V $\pm 10\%$ or 120 V Power Consumption: Approximately 8 kVA Voltage Regulation: Typically 0.01% + 3 mV (line and load) Current Regulation: Typically 0.02% + 3 mA (line and load) Ripple and Noise: Low ripple noise voltage Temperature Coefficient: Typically 50 ppm/ $^{\circ}\text{C}$ Transient Response: Typically 50 μs Aging Drift: Low aging drift Key Features 10-turn potentiometers enable fine control of voltage and current settings 4-digit LED display provides high-visibility monitoring of output parameters Sensing function compensates for voltage drop across load leads Remote control capability via external voltage or resistance input Built-in overvoltage protection (OVP) with adjustable settings

Built-in overcurrent protection (OCP) Internal voltage, current, and temperature detector circuits
Choke input circuit reduces AC input distortion and improves power factor Forced-air cooling
maintains thermal stability Replaceable input fuse with specified rating Protective ground terminal
for electrical safety Standard rack-width construction (430 mm), 3U height (approximately 130
mm) Typical Applications Research and development, quality control, manufacturing test lines,
and demanding laboratory or industrial testing where precise DC voltage and current control is
essential. Compatibility & Integration External control terminals support remote voltage and
current adjustment. DC output terminals accommodate sensing leads for lead-drop
compensation.

PAD5002L Characteristics / Specifications

PARAMETER	VALUE
Model	PAD500-2L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Series	PAD-L / PAD-LP
Alias	PAD 500-2L; PAD500-2L
Output Voltage	0 to 500 V
Output Current	0 to 2 A
Output Power	1000 W
Ripple CV	1 mVrms
Ripple CC	0.5 mArms
Line Regulation CV	0.002 percent plus 1 mV
Temperature Coefficient	typically 50 ppm perC Transient Response: typically 50 us
Operating Mode	CV and CC automatic crossover
OVPLSeries	built in
Voltage Control	10 turns full scale
Remote Sense	rear sensing terminals
Remote Program	analog family
Series Parallel	series, parallel with HV precautions
Meters	analog JIS class
Ground	plus or minus may be grounded within isolation rating
Isolation Voltage	plus/minus 500 Vdc class
Insulation Input Chassis	500 Vdc 30 Mohm min
Insulation Output Chassis	500 Vdc 20 Mohm min
Dielectric	1500 Vac 1 minute
Operating Temperature	0 to 40 C

PARAMETER	VALUE
Operating Humidity	10 to 90 percent RH
Cooling	forced air fan
CV Lamp	green
CC Lamp	red
Overcurrent Protect	110 percent of rated current class
Overheat Protect	heatsink thermostat class
Related PAD6	PAD600-1.5L 0-600 V 1.5 A
GPIB Path	PIA3200 / PIA4800 / DPO2212A
HV Practice	observe isolation and probe ratings at 500 V Notes
Humidity	10 to 90 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C
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Humidity	10 to 90 percent RH
Operating Humidity	10 to 90 percent RH
Cooling	forced air fan
CV Lamp	green
CC Lamp	red
Overcurrent Protect	110 percent of rated current class
Overheat Protect	heatsink thermostat class
Related PAD6	PAD600-1.5L 0-600 V 1.5 A
GPIB Path	PIA3200 / PIA4800 / DPO2212A
HV Practice	observe isolation and probe ratings at 500 V Notes

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	
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PARAMETER	VALUE
Model	PAD500-2L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Specifications	
PARAMETER	VALUE
Series	PAD-L / PAD-LP
Alias	PAD 500-2L; PAD500-2L
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Specifications	
PARAMETER	VALUE
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PARAMETER	VALUE
Operating Mode	CV and CC automatic crossover
OVPLSeries	built in
Voltage Control	10 turns full scale

Specifications

PARAMETER	VALUE
Remote Sense	rear sensing terminals
Remote Program	analog family
Series Parallel	series, parallel with HV precautions

Specifications

PARAMETER	VALUE
Meters	analog JIS class
Ground	plus or minus may be grounded within isolation rating
Isolation Voltage	plus/minus 500 Vdc class

Specifications

PARAMETER	VALUE
Insulation Input Chassis	500 Vdc 30 Mohm min
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Specifications

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Operating Temperature	0 to 40 C
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Specifications

PARAMETER	VALUE
CV Lamp	green
CC Lamp	red
Overcurrent Protect	110 percent of rated current class

Specifications

PARAMETER	VALUE
Overheat Protect	heatsink thermostat class
Related PAD600	PAD600-1.5L 0-600 V 1.5 A
GPIB Path	PIA3200 / PIA4800 / DP02212A

Option Meter: DOM-2

HV Practice: observe isolation and probe ratings at 500 V

Notes

Specs from Kikusui PAD-L table (PAD 500-2L: 0-500 V, 0-2 A, 1 mVrms / 0.5 mA, 0.002 percent plus 1 mV line).
Confirm isolation jumpers and HV output terminals before use.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.