

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KIKUSUI

Kikusui PAD 55-120L

The Kikusui PAD 55-120L is a DC power supply offering a voltage range of 0-55V and a current range of 0-120A. It provides stable and reliable power for various electronic testing and development applications. Features include constant voltage (CV) and constant current (CC) operation modes, remote control capabilities, and overvoltage protection.



MODEL

Kikusui PAD 55-120L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PAD 55-120L

LISTING

<https://aumictechlabs.com/products/pad-55-120l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kikusui PAD 55-120L is a regulated DC power supply engineered for industrial and laboratory testing, development, and manufacturing. It delivers 0–55V and 0–120A with dual operation modes - constant voltage (CV) and constant current (CC) - for precise power delivery to demanding loads. The unit combines fine 10-turn potentiometer control with remote voltage and current adjustment capabilities. Built-in overvoltage protection (OVP) and overcurrent protection (OCP) circuits, both adjustable from 10% to 110% of rated output, safeguard connected equipment. Temperature stability is exceptional at 50 ppm/°C, while line regulation holds 0.5% in CV mode and 1% in CC mode. Load regulation maintains 15 mV in both modes. Ripple and noise measure 50 mVrms. The choke input system delivers approximately 74% efficiency at full load and improves power factor at low output voltages. Fast transient response of 50 μ s ensures stable operation during sudden load changes. Input accepts 120/240 VAC $\pm$ 10%. Technical

Specifications Output voltage: 0–55V Output current: 0–120A Input: 120/240 VAC $\pm 10\%$ Line regulation (CV): 0.5% Line regulation (CC): 1% Load regulation (CV/CC): 15 mV Ripple and noise: 50 mVrms Temperature coefficient: 50 ppm/°C (typical) Transient response: 50 μ s Efficiency: ~74% (full load) Key Features Constant voltage and constant current operation modes 10-turn potentiometer for fine voltage and current adjustment Adjustable OVP and OCP circuits (10–110% of rated output) Remote control of output voltage and current via external voltage or resistance Current/voltage limit switch with preset displayable values Internal voltage, current, and temperature detection Choke input configuration for improved power factor and efficiency Typical Applications Industrial equipment testing and qualification Laboratory research and prototype development Manufacturing process power delivery Precision load testing Compatibility & Integration The PAD 55-120L operates from standard dual-voltage AC input and supports remote control integration for automated test systems.

PAD55120L Characteristics / Specifications

PARAMETER	VALUE
Model	PAD55-120L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Series	PAD-L / PAD-LP
Alias	PAD 55-120L; PAD55-120L
Output Voltage	0 to 55 V
Output Current	0 to 120 A
Output Power	6600 W
Ripple CV	0.5 mVrms
Ripple CC	50 mArms
Line Regulation CV	0.005 percent plus 1 mV
Temperature Coefficient	typically 50 ppm perC Transient Response: typically 50 us (Type V 100 us class on high-power PAD-L)
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, one-control parallel
Meters	analog JIS class on Type III/IV/V chassis
Ground	plus or minus may be grounded
Isolation Voltage Family	plus/minus 250 Vdc
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
AC Input Class	200 V (110/120/220/230/240 V on request) PAD-L remarks
Related PAD55 35 A	PAD55-35L 0-55 V 0-35 A 0.5 mVrms / 8 mArms
Related PAD55 60 A	PAD55-60L 0-55 V 0-60 A 0.5 mVrms / 20 mArms
GPIB Path	PIA3200 / PIA4800 / DPO2212A
Successor	PAD-LA 60 V class for new designs Notes
Humidity	10 to 90 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C
Operating Temperature	0 to 40 C
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
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Related PAD55 60 A	PAD55-60L 0-55 V 0-60 A 0.5 mVrms / 20 mArms
GPIB Path	PIA3200 / PIA4800 / DPO2212A
Successor	PAD-LA 60 V class for new designs 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	
Specifications	
PARAMETER	VALUE
Model	PAD55-120L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Specifications	
PARAMETER	VALUE
Series	PAD-L / PAD-LP
Alias	PAD 55-120L; PAD55-120L
Output Voltage	0 to 55 V
Specifications	
PARAMETER	VALUE
Output Current	0 to 120 A
Output Power	6600 W
Ripple CV	0.5 mVrms
Specifications	
PARAMETER	VALUE
Ripple CC	50 mArms
Line Regulation CV	0.005 percent plus 1 mV
Temperature Coefficient	typically 50 ppm perC Transient Response: typically 50 us (Type V) 100 us class on high-power PAD-L)
Specifications	
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, one-control parallel

Specifications

PARAMETER	VALUE
Meters	analog JIS class on Type III/IV/V chassis
Ground	plus or minus may be grounded
Isolation Voltage Family	plus/minus 250 Vdc

Specifications

PARAMETER	VALUE
Insulation Input Chassis	500 Vdc 30 Mohm min
Insulation Output Chassis	500 Vdc 20 Mohm min
Dielectric	1500 Vac 1 minute

Specifications

PARAMETER	VALUE
Operating Temperature	0 to 40 C
Operating Humidity	10 to 90 percent RH
Cooling	forced air fan

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
AC Input Class	200 V (110/120/220/230/240 V on request) PAD-L remarks
Related PAD55 35 A	PAD55-35L 0-55 V 0-35 A 0.5 mVrms / 8 mA rms

Specifications

PARAMETER	VALUE
Related PAD55 60 A	PAD55-60L 0-55 V 0-60 A 0.5 mVrms / 20 mA rms
GPiB Path	PIA3200 / PIA4800 / DP02212A
Successor	PAD-LA 60 V class for new designs

Notes

Specs from Kikusui PAD-L table (PAD 55-120L: 0-55 V, 0-120 A, 0.5 mVrms / 50 mA). Confirm TypeVchassis, 200 V input, andLversus LP OVP.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.