

**Aumictech**

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Data Sheet

August 13, 2026

KIKUSUI

Kikusui PAD55-35L

The Kikusui PAD55-35L is a regulated DC power supply engineered for demanding industrial and laboratory applications requiring precise voltage and current control. This unit delivers 0–55V and 0–35A, providing 1925W rated power across benchtop and integrated system environments. The PAD55-35L combines dual CV/CC operation modes with advanced regulation stability, low output ripple, and comprehensive protection architecture to safeguard connected loads during testing, development, and quality control workflows. Transient Response: Wide-band error amplifier with stable frequency gain and phase characteristics Constant Voltage and Constant Current dual-mode operation with front-panel observable setpoint values Standard Overvoltage Protector (OVP) with front-panel adjustable voltage threshold and 50ms operating pulse width



MODEL

Kikusui PAD55-35L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PAD55-35L

LISTING

<https://aumictechlabs.com/products/pad55-35l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Kikusui PAD55-35L is a regulated DC power supply engineered for demanding industrial and laboratory applications requiring precise voltage and current control. This unit delivers 0–55V and 0–35A, providing 1925W rated power across benchtop and integrated system environments. The PAD55-35L combines dual CV/CC operation modes with advanced regulation stability, low output ripple, and comprehensive protection architecture to safeguard connected loads during testing,

development, and quality control workflows. Technical Specifications Output Range: 0–55V / 0–35A Rated Power: Approximately 1925W Line Regulation (CV): $\leq 0.5\% + 1\text{mV}$ (typ.) Line Regulation (CC): $\leq 1\% + 3\text{mA}$ (typ.) Load Regulation (CV): $\leq 3\% + 3\text{mV}$ (typ.) Load Regulation (CC): $\leq 2\% + 2\text{mA}$ (typ.) Output Ripple (CV): $\leq 8\text{mV}_{\text{rms}}$ (typ.) Output Noise (CC): $\leq 1\text{mA}$ (typ.) Temperature Coefficient: 50ppm/°C with minimal aging drift Transient Response: Wide-band error amplifier with stable frequency gain and phase characteristics Key Features Constant Voltage and Constant Current dual-mode operation with front-panel observable setpoint values Standard Overvoltage Protector (OVP) with front-panel adjustable voltage threshold and 50ms operating pulse width Optional high-speed thyristor crowbar OVP (200 μs pulse width) for semiconductor-sensitive loads Choke input rectifier filter system reduces line harmonic distortion and improves input power factor, particularly at low output voltages Premium component selection and forced-air cooling deliver excellent temperature stability and minimal time-dependent drift Typical Applications Component and subsystem functional testing Power supply design and validation Load characterization across wide voltage and current ranges Burn-in and reliability qualification testing Compatibility & Integration AC input voltage is field-configurable; refer to the specific unit and manual for your voltage setting and corresponding fuse rating. Power delivery uses a 3-core cable with designated Line, Neutral, and Ground conductors. Units configured for 125V AC or higher input may be supplied with the AC plug detached; installation of a suitable plug is required before operation.

PAD5535L Characteristics / Specifications

PARAMETER	VALUE
Model	PAD55-35L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Series	PAD-L / PAD-LP
Alias	PAD 55-35L; PAD55-35L
Output Voltage	0 to 55 V
Output Current	0 to 35 A
Output Power	1925 W
Ripple CV	0.5 mVrms
Ripple CC	8 mArms
Line Regulation CV	0.005 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, one-control parallel
Meters	analog JIS class 2.5 Type III/IV class
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
Related PAD55 20 A	PAD55-20L ripple CC 2 mA class
Related PAD55 60 A	PAD55-60L
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
Related PAD55 20 A	PAD55-20L ripple CC 2 mA class
Related PAD55 60 A	PAD55-60L
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	PAD55-35L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Specifications	
PARAMETER	VALUE
Series	PAD-L / PAD-LP
Alias	PAD 55-35L; PAD55-35L
Output Voltage	0 to 55 V
Specifications	
PARAMETER	VALUE
Output Current	0 to 35 A
Output Power	1925 W
Ripple CV	0.5 mVrms
Specifications	
PARAMETER	VALUE
Ripple CC	8 mArms
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Temperature Coefficient	typically 50 ppm perC Transient Response: typically 50 us
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 2.5 Type III/IV class
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
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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
Related PAD55 20 A	PAD55-20L ripple CC 2 mA class
Related PAD55 60 A	PAD55-60L

GPIB Path: PIA3200 / PIA4800 / DP02212A

Option Meter: DOM-2

Successor: PAD-LA 60 V class for new designs

Notes

Specs from Kikusui PAD-L table (PAD 55-35L: 0-55 V, 0-35 A, 0.5 mVrms / 8 mA). Confirm Type III versus IV chassis and 100/200 V input.

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.