

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KIKUSUI

Kikusui PAD35-20L

The Kikusui PAD35-20L is a DC power supply delivering 0–35 VDC at up to 20 A for electronic testing, development, and manufacturing applications. Output voltage is continuously adjustable via a 10-turn potentiometer, with line regulation of 0.005% + 1 mV and load regulation of 0.005% + 2 mV ensuring stable operation across varying conditions. The supply incorporates a thyristor preregulator and series regulator power transistor with choke input circuit, minimizing harmonic distortion and maintaining output ripple and noise below 3.6 mV rms. Transient response is faster than 50 µsec for 5–100% load changes. Adjustable current limit with internal voltage, current, and temperature detection Aumictech offers NIST-traceable calibration and repair for the Kikusui PAD35-20L. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 bus



MODEL

Kikusui PAD35-20L

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PAD35-20L

LISTING

<https://aumictechlabs.com/products/pad35-20l-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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distortion and maintaining output ripple and noise below 3.6 mV rms. Transient response is faster than 50 μ sec for 5–100% load changes. Technical Specifications Output: 0–35 VDC, 0–20 ADC Line regulation: 0.005% + 1 mV Load regulation: 0.005% + 2 mV Ripple and noise: < 3.6 mV rms Transient response: < 50 μ sec (5–100% load change) Input: 120 VAC $\pm$ 10%, 50/60 Hz Power consumption: ~720 VA at rated load Temperature drift: 50 ppm/ $^{\circ}$ C Dimensions: 210 mm W $\times$ 140 mm H $\times$ 310 mm D Key Features Adjustable overvoltage protection (OVP) from front panel Adjustable current limit with internal voltage, current, and temperature detection Remote sensing support for improved load-end regulation External control of output voltage and current via voltage or resistance input Remote on/off capability Analog voltage and current panel meters Benchtop or 19-inch rack installation options Low aging drift and temperature coefficient stability Typical Applications Electronic component testing and characterization Product development and prototype power sourcing Manufacturing test stations requiring precise voltage and current control Compatibility & Integration Remote sensing and external control interfaces enable integration with automated test systems. Output can be regulated at the load point and controlled by external voltage or resistance signals.

PAD3520L Characteristics / Specifications

PARAMETER	VALUE
Model	PAD35-20L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Series	PAD-L / PAD-LP
Alias	PAD 35-20L; PAD35-20LP
Output Voltage	0 to 35 V
Output Current	0 to 20 A
Output Power	700 W
Ripple CV	0.5 mVrms
Ripple CC	3 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
OVP LP Series	high speed about 0.2 ms (PAD35-20LP)
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

PARAMETER	VALUE
Operating Temperature	0 to 40 C
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 PAD35 10 A	PAD35-10L 0-35 V 0-10 A 0.5 mVrms / 2 mArms
Related PAD35 30 A	PAD35-30L 0-35 V 0-30 A
Related PAD35 50 A	PAD35-50L 0-35 V 0-50 A 0.5 mVrms / 10 mArms
GPIO Path	PIA3200 / PIA4800 / DPO2212A
Successor	PAD-LA 36 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 PAD35 10 A	PAD35-10L 0-35 V 0-10 A 0.5 mVrms / 2 mArms
Related PAD35 30 A	PAD35-30L 0-35 V 0-30 A
Related PAD35 50 A	PAD35-50L 0-35 V 0-50 A 0.5 mVrms / 10 mArms
GPIB Path	PIA3200 / PIA4800 / DPO2212A
Successor	PAD-LA 36 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	PAD35-20L
Manufacturer	Kikusui Electronics
Instrument Type	Regulated DC power supply CV CC
Specifications	
PARAMETER	VALUE
Series	PAD-L / PAD-LP
Alias	PAD 35-20L; PAD35-20LP
Output Voltage	0 to 35 V
Specifications	
PARAMETER	VALUE
Output Current	0 to 20 A
Output Power	700 W
Ripple CV	0.5 mVrms
Specifications	
PARAMETER	VALUE
Ripple CC	3 mArms
Line Regulation CV	0.005 percent plus 1 mV
Temperature Coefficient	typically 50 ppm perC Transient Response: typically 50 us
Specifications	
PARAMETER	VALUE
Operating Mode	CV and CC automatic crossover
OVPLSeries	built in
OVP LP Series	high speed about 0.2 ms (PAD35-20LP)

Specifications

PARAMETER	VALUE
Voltage Control	10 turns full scale
Remote Sense	rear sensing terminals
Remote Program	analog family

Specifications

PARAMETER	VALUE
Series Parallel	series, parallel, one-control parallel
Meters	analog JIS class 2.5 Type III/IV class
Ground	plus or minus may be grounded

Specifications

PARAMETER	VALUE
Isolation Voltage Family	plus/minus 250 Vdc
Insulation Input Chassis	500 Vdc 30 Mohm min
Insulation Output Chassis	500 Vdc 20 Mohm min

Specifications

PARAMETER	VALUE
Dielectric	1500 Vac 1 minute
Operating Temperature	0 to 40 C
Operating Humidity	10 to 90 percent RH

Specifications

PARAMETER	VALUE
Cooling	forced air fan
CV Lamp	green
CC Lamp	red

Specifications

PARAMETER	VALUE
Overcurrent Protect	110 percent of rated current class
Overheat Protect	heatsink thermostat class
Related PAD35 10 A	PAD35-10L 0-35 V 0-10 A 0.5 mVrms / 2 mA rms

Specifications

PARAMETER	VALUE
Related PAD35 30 A	PAD35-30L 0-35 V 0-30 A
Related PAD35 50 A	PAD35-50L 0-35 V 0-50 A 0.5 mVrms / 10 mA rms
GPiB Path	PIA3200 / PIA4800 / DP02212A

Successor: PAD-LA 36 V class for new designs

Notes

Specs from Kikusui PAD-L table (PAD 35-20L/LP: 0-35 V, 0-20 A, 0.5 mVrms / 3 mA). ConfirmL versus LP OVP and 100/200 V input jumper.

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

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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.