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**Data Sheet**
August 13, 2026

KIKUSUI

# Kikusui PAD70

Kikusui PAD70-8L Regulated DC Power Supply 0 to 70 V 8 A The Kikusui PAD70 (catalog PAD70-8L when current is unspecified and PAD70-15L isaseparate listing) isaPAD-L CV/CC DC supply, 0 to 70 V and 0 to 8 A. Ripple 0.5 mVrms CV and 2 mArms CC on the PAD-L table. Line regulation 0.005 percent plus 1 mV. Thyristor preregulator and series transistor regulator with choke-input AC front end. Confirm the faceplate: PAD70-8L versus PAD70-5L or PAD70-15L. Instrument Type: Regulated DC power supply CV CC Line Regulation CV: 0.005 percent plus 1 mV The Kikusui PAD70 (catalog PAD70-8L when current is unspecified and PAD70-15L isaseparate listing) isaPAD-L CV/CC DC supply, 0 to 70 V and 0 to 8 A. Ripple 0.5 mVrms CV and 2 mArms CC on the PAD-L table. Line regulation 0.005 percent plus 1 mV. Thyristor preregulator and series transistor regulator with choke-input AC front end. Confirm the faceplate: PAD70-8L versus PAD70-5L or PAD70-15L. Instrument Type: Regulated DC power supply CV CC Line Regulation CV: 0.005 percent plus 1 mV Temperature Coefficient: typically 50 ppm perC Transient Response: typically 50 us

| | |
|---|---|
| MODEL<br>**Kikusui PAD70** | CALIBRATION<br>**Available on request** |
| CONDITION<br>**Used** | STATUS<br>**In stock** |
| RFQ / SKU<br>**PAD70** | LISTING<br>**https://aumictechlabs.com/products/pad70-2/** |

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Kikusui PAD70 is a linear regulated DC power supply engineered for electronics testing, development, and long-term aging applications. It delivers stable, adjustable DC voltage and current outputs with constant voltage (CV) and constant current (CC) modes, making it suitable

for powering and characterizing electronic circuits across diverse voltage and current requirements. The unit features dual-mode operation, integrated overvoltage protection, and precision analog controls for fine adjustment of output parameters. Technical Specifications Input Voltage: 120 VAC ±10% or 240 VAC ±10%, 50 Hz/60 Hz Output Voltage: 0–70 VDC Output Current: Model-dependent; PAD70-15L: 15 A max; PAD70-8L: 8 A max; PAD70-5L: 5 A max; PAD70-2.5L: 2.5 A max Ripple and Noise: 1 mV RMS max; peak-to-peak ripple varies by model (13 mV typical for PAD70-15L) Voltage Regulation: Line regulation 0.005% + 1 mV (±10% input change); load regulation 0.005% + 2 mV (0–100% load change) Dimensions: 430 mm W × 160 mm H × 400 mm D (PAD70-15L) Weight: 34 kg (PAD70-15L) Key Features Constant voltage and constant current modes with automatic mode crossover 10-turn potentiometers for precise voltage and current adjustment Overvoltage protection (OVP) standard; optional thyristor crowbar protection available Internal protection via voltage, current, and temperature detection circuits Front-panel CV/CC mode indication and limit switches Remote sensing capability for accurate load-end voltage regulation LED display for real-time voltage and current monitoring Typical Applications Component and circuit characterization during R&D phases Thermal aging and reliability testing under sustained loads Power supply verification and burn-in testing Battery charging and electrochemical cell testing Compatibility & Integration Benchtop configuration with optional 19-inch rack installation. AC input connector on rear panel; external control terminals for remote voltage and resistance adjustment; OVP threshold accessible from rear panel.

## PAD70 Characteristics / Specifications

| PARAMETER | VALUE |
|---|---|
| **Model** | PAD70-8L |
| **Manufacturer** | Kikusui Electronics |
| **Instrument Type** | Regulated DC power supply CV CC |
| **Series** | PAD-L / PAD-LP |
| **Alias** | PAD70; PAD 70; PAD 70-8L |
| **Output Voltage** | 0 to 70 V |
| **Output Current** | 0 to 8 A |
| **Output Power** | 560 W |
| **Ripple CV** | 0.5 mVrms |
| **Ripple CC** | 2 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 PAD70 2.5 A** | PAD70-2.5L |
| **Related PAD70 5 A** | PAD70-5L |
| **Related PAD70 15 A** | PAD70-15L (separate file) |
| **GPIB Path** | PIA3200 / PIA4800 / DPO2212A |
| **Successor** | PAN70-8A / PAD-LA 72 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 PAD70 2.5 A** | PAD70-2.5L |
| **Related PAD70 5 A** | PAD70-5L |
| **Related PAD70 15 A** | PAD70-15L (separate file) |
| **GPIB Path** | PIA3200 / PIA4800 / DPO2212A |
| **Successor** | PAN70-8A / PAD-LA 72 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** | PAD70-8L |
| **Manufacturer** | Kikusui Electronics |
| **Instrument Type** | Regulated DC power supply CV CC |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Series** | PAD-L / PAD-LP |
| **Alias** | PAD70; PAD 70; PAD 70-8L |
| **Output Voltage** | 0 to 70 V |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Output Current** | 0 to 8 A |
| **Output Power** | 560 W |
| **Ripple CV** | 0.5 mVrms |

### Specifications

| PARAMETER | VALUE |
|---|---|
| **Ripple CC** | 2 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 |
| **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 |
| **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 |
| **Related PAD70 2.5 A** | PAD70-2.5L |
| **Related PAD70 5 A** | PAD70-5L |

## Specifications

| PARAMETER | VALUE |
| --- | --- |
| **Related PAD70 15 A** | PAD70-15L (separate file) |
| **GPIB Path** | PIA3200 / PIA4800 / DPO2212A |
| **Successor** | PAN70-8A / PAD-LA 72 V class for new designs |

Notes

Specs from Kikusui PAD-L table (PAD 70-8L: 0-70 V, 0-8 A, 0.5 mVrms / 2 mA). Listings titled only PAD70 are usually 8 A; confirm versus 5 A or 15 A on the nameplate.

## 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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