Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 13, 2026

KIKUSUI

Kikusui PMC 18-1A

The Kikusui PMC 18-1A is a single-output regulated DC power supply for electronic testing and development. It delivers 0 to 18 VDC at 0 to 1 A with automatic CV/CC switching, series regulator design for low-noise output, and dual 3-1/2 digit LED displays. High-resolution 10-turn potentiometers enable precise voltage and current adjustment. Overvoltage and overheat protection safeguard connected equipment. Remote sensing compensates for load cable voltage drop, while external analog remote control and output monitoring functions provide flexible system integration. Electronic front-panel ON/OFF switching and master-slave parallel operation for capacity expansion round out this versatile supply. Two 3-1/2 digit LED displays for voltage and current (simultaneous display or setting values) External Analog Remote Control for voltage and current adjustment via external voltage or resistance

MODEL	CALIBRATION
Kikusui PMC 18-1A	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
PMC 18-1A	https://aumictechlabs.com/products/pmc-18-1a-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Kikusui PMC 18-1A is a single-output regulated DC power supply for electronic testing and development. It delivers 0 to 18 VDC at 0 to 1 A with automatic CV/CC switching, series regulator design for low-noise output, and dual 3-1/2 digit LED displays. High-resolution 10-turn potentiometers enable precise voltage and current adjustment. Overvoltage and overheat protection safeguard connected equipment. Remote sensing compensates for load cable voltage

drop, while external analog remote control and output monitoring functions provide flexible system integration. Electronic front-panel ON/OFF switching and master-slave parallel operation for capacity expansion round out this versatile supply. Technical Specifications Output voltage: 0 to 18 VDC Output current: 0 to 1 A Single output channel Series regulator system with automatic CV/CC shift Two 3-1/2 digit LED displays for voltage and current (simultaneous display or setting values) 10-turn potentiometers for voltage and current adjustment Overvoltage Protection (OVP) with adjustable trip point Overheat Protection (OHP) Warm-up time: 30 minutes with load current flowing Key Features Low-noise output characteristic of series regulator topology Remote Sensing Function for 18 V rated models to compensate cable drop losses External Analog Remote Control for voltage and current adjustment via external voltage or resistance signals Output Monitoring Function for voltage, current, and operating status Electronic front-panel output ON/OFF switch Master-slave parallel operation capability for expanded capacity Rear panel protective conductor terminal for grounding Interfaces & Integration Output terminals: Positive (+), Negative (−), Ground (GND) Sensing terminals: +S and −S for remote sensing J2 connector for remote control and monitoring functions GPIB control capability when combined with compatible Kikusui controllers (PIA 3200, 4800 series, depending on ROM version) Typical Applications Component characterization, circuit development, equipment qualification, and laboratory power delivery where low-noise DC and precise voltage/current control are required.

PMC181A Characteristics / Specifications

PARAMETER	VALUE
Type I	107 × 124 × 270 mm class LED meters plus/minus (0.5 percent rdg + 2 digits) voltage typical Technical Specifications
Model	PMC18-1A
Manufacturer	Kikusui Electronics
Instrument Type	Compact regulated DC power supply CV CC
Series	PMC / PMC-A
Alias	PMC 18-1A; PMC18-1A
Output Voltage	0 to 18 V
Output Current	0 to 1 A
Ripple CV	0.5 mVrms
Ripple CC	1 mArms
Line Regulation CV	1 mV
Line Regulation CC	10 mA
Load Regulation CV	2 mV
Load Regulation CC	5 mA
Input Voltage	100 V plus/minus 10 percent
Input Power	50 VA
Chassis Type	Typel Weight: approx 3.5 kg
Voltage Temperature Coefficient	typically 100 ppm perC Current Temperature Coefficient: typically 200 ppm perC Transient Response: 50 us
Voltage Display Max	19.99
Meter Voltage Error	plus/minus (0.5 percent rdg + 2 digits) at 23 plus/minus 5 C typical
Meter Current Error	plus/minus (1 percent rdg + 5 digits) at 23 plus/minus 5 C typical
Isolation Voltage	plus/minus 250 V (18 V and 35 V models)
OVP Range	5 percent to 105 percent of rating
Remote Sense	yes (18 V and 35 V models)

PARAMETER	VALUE
Remote Voltage PMC A	0 to 10 V or 0 to 10 kohm
Remote Current PMC A	0 to 10 V or 0 to 10 kohm
MonitorVMON	10.0 V plus/minus 0.5 V at rated voltage
MonitorIMON	10.0 V plus/minus 0.5 V at rated current
Status Outputs	OUT ON, CV, CC, ALM, PWR ON
Dimensions Type I	107 mmWx 124 mmHx 270 mmDclass
Operating Temperature	0 to 40 C
Operating Humidity	10 to 80 percent RH
Cooling	convection
Series Parallel	series; parallel same model
Rack Option	KRA150 JIS / KRA3 EIA
Controller Option	PIA3200 Notes
Humidity	10 to 80 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 40 C
Operating Temperature	0 to 40 C
Humidity	10 to 80 percent RH
Operating Humidity	10 to 80 percent RH
Cooling	convection
Series Parallel	series; parallel same model
Rack Option	KRA150 JIS / KRA3 EIA
Controller Option	PIA3200 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	PMC18-1A
Manufacturer	Kikusui Electronics
Instrument Type	Compact regulated DC power supply CV CC

Specifications

PARAMETER	VALUE
Series	PMC / PMC-A
Alias	PMC 18-1A; PMC18-1A
Output Voltage	0 to 18 V

Specifications

PARAMETER	VALUE
Output Current	0 to 1 A
Ripple CV	0.5 mVrms
Ripple CC	1 mArms

Specifications

PARAMETER	VALUE
Line Regulation CV	1 mV
Line Regulation CC	10 mA
Load Regulation CV	2 mV

Specifications

PARAMETER	VALUE
Load Regulation CC	5 mA
Input Voltage	100 V plus/minus 10 percent
Input Power	50 VA

Specifications

PARAMETER	VALUE
Chassis Type	TypeI Weight: approx 3.5 kg
Voltage Temperature Coefficient	typically 100 ppm perC Current Temperature Coefficient: typically 200 ppm perC Transient Response: 50 us
Voltage Display Max	19.99

Specifications

PARAMETER	VALUE
Meter Voltage Error	plus/minus (0.5 percent rdg + 2 digits) at 23 plus/minus 5 C typical
Meter Current Error	plus/minus (1 percent rdg + 5 digits) at 23 plus/minus 5 C typical
Isolation Voltage	plus/minus 250 V (18 V and 35 V models)

Specifications

PARAMETER	VALUE
OVP Range	5 percent to 105 percent of rating
Remote Sense	yes (18 V and 35 V models)
Remote Voltage PMC A	0 to 10 V or 0 to 10 kohm

Specifications

PARAMETER	VALUE
Remote Current PMC A	0 to 10 V or 0 to 10 kohm
MonitorVMON	10.0 V plus/minus 0.5 V at rated voltage
MonitorIMON	10.0 V plus/minus 0.5 V at rated current

Specifications

PARAMETER	VALUE
Status Outputs	OUT ON, CV, CC, ALM, PWR ON
Dimensions Type I	107 mmWx 124 mmHx 270 mmDclass
Operating Temperature	0 to 40 C

Specifications

PARAMETER	VALUE
Operating Humidity	10 to 80 percent RH
Cooling	convection
Series Parallel	series; parallel same model

Rack Option: KRA150 JIS / KRA3 EIA

Controller Option: PIA3200

Notes

Specs from Kikusui PMC/PMC-A series table (PMC18-1A: 0-18 V, 0-1 A, 0.5 mVrms / 1 mA, Type I, 3.5 kg, 100 V 50 VA). Confirm PMC versus PMC-A remote connectors.

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
NAICS 423690 · 811210 · 541380
Generated August 13, 2026