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Data Sheet

August 13, 2026

KIKUSUI

Kikusui PMC18-5A

The Kikusui PMC18-5A is a single-output programmable DC power supply engineered for benchtop development, testing, and quality control applications. This 90 W unit delivers 0–18 V and 0–5 A with series-regulated design, providing exceptional output stability and low ripple and noise performance. Its dual constant-voltage/constant-current operating modes with automatic crossover accommodate diverse load conditions. Analog remote control, remote sensing, and computer control via GPIB (with optional controller) enable integration into automated test systems. Parallel master-slave and one-control operation allows capacity expansion for higher power requirements. Constant-voltage/constant-current crossover operation with automatic mode selection Overvoltage protection, overheating protection, and inherent overcurrent limiting 10-turn voltage potentiometer and single-turn current potentiometer



MODEL

Kikusui PMC18-5A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PMC18-5A

LISTING

<https://aumictechlabs.com/products/pmc18-5a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

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computer control via GPIB (with optional controller) enable integration into automated test systems. Parallel master-slave and one-control operation allows capacity expansion for higher power requirements. Technical Specifications Output Voltage: 0 to 18 V Output Current: 0 to 5 A Rated Output Power: 90 W Input: 105–130 V, 180–220 V, 195–239 V, or 210–250 V AC (selectable); 50/60 Hz Load Regulation (CV): $\leq 0.5\% + 3 \text{ mV}$ Load Regulation (CC): $\leq 1\% + 5 \text{ mA}$ Line Regulation (CV): $\leq 0.01\% + 3 \text{ mV}$ Line Regulation (CC): $\leq 0.5\% + 5 \text{ mA}$ Output Ripple & Noise (CV): $\leq 2 \text{ mVrms}$ Output Ripple & Noise (CC): $\leq 10 \text{ mA}$ Operating Temperature: -10 to $+40 \text{ }^{\circ}\text{C}$ Warm-up Time: 30 minutes Key Features Constant-voltage/constant-current crossover operation with automatic mode selection Overvoltage protection, overheating protection, and inherent overcurrent limiting LED digital meter displaying voltage and current simultaneously 10-turn voltage potentiometer and single-turn current potentiometer for precision setting Remote sensing output for stable load-side voltage regulation Analog remote control of voltage and current parameters Front-panel output ON/OFF switch Typical Applications Component characterization and burn-in testing Power supply development and validation Automated test systems with analog or GPIB control Applications requiring low-noise, regulated DC power at moderate voltage and current levels Compatibility & Integration The PMC18-5A integrates with GPIB-compatible test controllers such as the PIA4800 Series (ROM compatibility may be required). Master-slave parallel and one-control parallel configurations enable output power expansion without replacing hardware.

PMC185A Characteristics / Specifications

PARAMETER	VALUE
Model	PMC18-5A
Manufacturer	Kikusui Electronics
Instrument Type	Compact DC power supply CV CC
Series	PMC-A
Alias	PMC 18-5A; PMC18-5A
Output Voltage	0 to 18 V
Output Current	0 to 5 A
Ripple CV	0.5 mVrms
Ripple CC	2 mArms
Line Regulation CV	1 mV
Line Regulation CC	5 mA
Load Regulation CV	5 mV
Load Regulation CC	10 mA
AC Input	100 V plus/minus 10 percent
Input Apparent Power	approx 230 VA
Chassis Type	II
Weight	approx 6.0 kg
Remote Voltage	0 to 10 V or 0 to 10 kohm (PMC-A)
Remote Current	0 to 10 V or 0 to 10 kohm class PMC-A
Monitor V	10.0 V plus/minus 0.5 V at rated voltage
Monitor I	10.0 V plus/minus 0.5 V at rated current
Status Outputs	OUT ON, CV, CC, ALM, PWR ON
Series Operation	yes (family note)
Parallel Operation	same model
Related PMC18 1 A	PMC18-1A 0-1 A, 50 VA, Type I, 3.5 kg

PARAMETER	VALUE
Related PMC18 2 A	PMC18-2A 0-2 A, 100 VA, Type I, 4.0 kg
Related PMC18 3 A	PMC18-3A 0-3 A, 160 VA, Type I, 5.0 kg
Related Without A	PMC18-5 same 0-18 V 0-5 A ripple without PMC-A remote set
Type II Outline PMC A	107 W x 124 (134) H x 350 (385) D mm class
Operating Mode	CV and CC automatic crossover
OVP	family overvoltage protection
Form	compact Type II bench
Status	PMC-A 18 V 5 A 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	
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Specifications	
PARAMETER	VALUE
Load Regulation CC	10 mA
AC Input	100 V plus/minus 10 percent
Input Apparent Power	approx 230 VA

Specifications

PARAMETER	VALUE
Chassis Type	II
Weight	approx 6.0 kg
Remote Voltage	0 to 10 V or 0 to 10 kohm (PMC-A)

Specifications

PARAMETER	VALUE
Remote Current	0 to 10 V or 0 to 10 kohm class PMC-A
Monitor V	10.0 V plus/minus 0.5 V at rated voltage
Monitor I	10.0 V plus/minus 0.5 V at rated current

Specifications

PARAMETER	VALUE
Status Outputs	OUT ON, CV, CC, ALM, PWR ON
Series Operation	yes (family note)
Parallel Operation	same model

Specifications

PARAMETER	VALUE
Related PMC18 1 A	PMC18-1A 0-1 A, 50 VA, Type I, 3.5 kg
Related PMC18 2 A	PMC18-2A 0-2 A, 100 VA, Type I, 4.0 kg
Related PMC18 3 A	PMC18-3A 0-3 A, 160 VA, Type I, 5.0 kg

Specifications

PARAMETER	VALUE
Related Without A	PMC18-5 same 0-18 V 0-5 A ripple without PMC-A remote set
Type II Outline PMC A	107 W x 124 (134) H x 350 (385) D mm class
Operating Mode	CV and CC automatic crossover

Specifications

PARAMETER	VALUE
OVP	family overvoltage protection
Form	compact Type II bench
Status	PMC-A 18 V 5 A

Notes

Specs from Kikusui PMC-A/PMC table (PMC18-5A: 0-18 V, 0-5 A, 0.5 mVrms / 2 mA, 1 mV / 5 mA line, 5 mV / 10 mA load, 100 V 230 VA, Type II 6 kg). ConfirmAversus non-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

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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.