

**Aumictech**

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Data Sheet

August 13, 2026

INSTEK/GW

GW Instek PSS-2005 Programmable DC Power Supply

The Instek PSS-2005 is a single-channel, 200W programmable switching DC power supply offering high resolution and accuracy. It features constant voltage (CV) and constant current (CC) modes, remote sensing, and over-voltage/over-current protection (OVP/OCP). Ideal for laboratory, industrial, and educational applications requiring a stable and adjustable DC power source.



MODEL

Instek/GW PSS-2005

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PSS-2005

LISTING

<https://aumictechlabs.com/products/pss-2005-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Instek PSS-2005 is a reliable single-channel, 200W programmable switching DC power supply designed for precision and versatility. It has a clean and stable DC output with high resolution and accuracy, making it suitable for a wide range of applications. The PSS-2005 supports both constant voltage (CV) and constant current (CC) modes, allowing users to set voltage and current limits to protect sensitive devices. It includes remote sensing to compensate for voltage drops in leads, ensuring accurate voltage delivery at the load. The built-in over-voltage protection (OVP) and over-current protection (OCP) features safeguard the power supply.

and connected devices from damage due to voltage or current spikes. This power supply is an excellent choice for laboratory testing, industrial control, and educational purposes.

Features & description

From manufacturer datasheet

Features

- Digitized programmable interface with simultaneous LCD readout
- Intelligent cooling fan that changes with output power
- Built-in buzzer alarm
- Optional European jack type terminal
- Optional GRA-403 / GRA-408 rack adapter
- Compact 108 mm width chassis for 1/2-rack style benches

PSS2005 Characteristics / Specifications

PARAMETER	VALUE
Model	PSS-2005
Manufacturer	GW Instek
Instrument Type	Programmable linear DC power supply
Series	PSS
Alias	PSS2005; PSS-2005GP (GPIB option)
Rated power	100 W
Output voltage	0 to 20 V
Output current	0 to 5 A
OVP range	0 to 21 V
CV load regulation	less than 3 mV (less than 5 mV when rating current greater than 3 A)
CC load regulation	less than 3 mA (less than 5 mA when rating current greater than 3 A)
CV line regulation	less than 3 mV
CC line regulation	less than 3 mA
Voltage resolution	10 mV
Current resolution	1 mA (2 mA when rating current greater than 3 A)
OVP resolution	10 mV
Program voltage accuracy	less than 0.05% + 20 mV (25±5 C)
Program current accuracy	less than 0.1% + 5 mA (10 mA when rating current greater than 3 A) at 25±5 C
Program OVP accuracy	less than 0.05% + 20 mV (25±5 C)
Voltage ripple	1 mVrms / 3 mVp-p (20 Hz to 20 MHz)
Voltage noise	2 mVrms / 30 mVp-p (20 Hz to 20 MHz)
Current ripple	less than 3 mArms (less than 5 mArms when rating current greater than 3 A)
Temp coeff voltage	less than 100 ppm + 3 mV (0 to 40 C)
Temp coeff current	less than 100 ppm + 3 mA (0 to 40 C)

PARAMETER	VALUE
Readback voltage resolution	10 mV
Readback current resolution	1 mA (2 mA when rating current greater than 3 A)
Readback voltage accuracy	less than 0.05% + 10 mV (25±5 C)
Readback current accuracy	less than 0.1% + 5 mA (10 mA when rating current greater than 3 A) at 25±5 C
Readback temp coeff voltage	less than 100 ppm + 10 mV
Readback temp coeff current	less than 100 ppm + 5 mA (+10 mA when rating current greater than 3 A)
Voltage up response	less than 100 ms (10% to 90%)
Voltage down response	less than 100 ms (90% to 10%, at 10% or greater rating load)
Drift voltage	less than 100 ppm + 10 mV
Drift current	less than 150 ppm + 10 mA
Remote interface	RS-232C standard; GPIB IEEE 488.2 option (factory; mutually exclusive with RS-232C)
AC power	100/120/220 V ±10%, 230 V (+10% / -6%), 50/60 Hz
Dimensions	108 mmWx 140 mmHx 315 mmDWeight: approximately 4.8 kg
Accessories	user manual, power cord, test lead GTL-104 (or GTL-104A) for PSS-2005
Spec condition	30 minutes warm-up, +20 C to +30 C

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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Program current accuracy	less than 0.1% + 5 mA (10 mA when rating current greater than 3 A) at 25±5 C
Program OVP accuracy	less than 0.05% + 20 mV (25±5 C)
Voltage ripple	1 mVrms / 3 mVp-p (20 Hz to 20 MHz)
Voltage noise	2 mVrms / 30 mVp-p (20 Hz to 20 MHz)
Current ripple	less than 3 mA rms (less than 5 mA rms when rating current greater than 3 A)
Temp coeff voltage	less than 100 ppm + 3 mV (0 to 40 C)
Temp coeff current	less than 100 ppm + 3 mA (0 to 40 C)
Readback voltage resolution	10 mV

PARAMETER	VALUE
Readback current resolution	1 mA (2 mA when rating current greater than 3 A)
Readback voltage accuracy	less than 0.05% + 10 mV (25±5 C)
Readback current accuracy	less than 0.1% + 5 mA (10 mA when rating current greater than 3 A) at 25±5 C
Readback temp coeff voltage	less than 100 ppm + 10 mV
Readback temp coeff current	less than 100 ppm + 5 mA (+10 mA when rating current greater than 3 A)
Voltage up response	less than 100 ms (10% to 90%)
Voltage down response	less than 100 ms (90% to 10%, at 10% or greater rating load)
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Notes

Specs from GW Instek PSS-Series specification sheet. Confirm RS-232C versus factory GPIB (PSS-2005GP) on the rear panel. Related family member is PSS-3203 (0 to 32 V / 0 to 3 A, 96 W).

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.