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Data Sheet

August 13, 2026

INSTEK

Instek PSH-6018A 1080W Programmable Switching D.C. Power Supply

Key Features - Wide AC input and high power factor - Output ON/OFF and built-in buzzer - Standard RS-232C; optional GPIB (IEEE-488.2) cannot be installed together - Modular architecture with rear output - Do not confuse with PSH-6006 (6 A / 360 W) or PSH-6012 (12 A / 720 W) Technical Specifications Model: PSH-6018A Manufacturer: GW Instek Instrument Type: Programmable switching DC power supply Series: PSH Alias: PSH6018A; PSH-6018 Output voltage: 60 V Output current: 18 A Rated power: 1080 W CV load regulation: 0.1% + 5 mV CV line regulation: 0.05% + 5 mV CC load regulation: 0.2% + 15 mA CC line regulation: 0.2% + 15 mA Voltage ripple rms: 10 mVrms Voltage ripple peak to peak: 100 mVp-p, 20 Hz to 20 MHz Current ripple: 0.



MODEL

Instek PSH-6018A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PSH-6018A

LISTING

<https://aumictechlabs.com/products/psh-6018-a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Instek PSH-6018A is a 1080W programmable switching DC power supply engineered for laboratory, industrial, and automated testing environments where stable, precise power delivery is critical. It combines high power density with efficient switching technology and power factor correction to maximize energy utilization across a wide input voltage range. The unit operates in

both constant voltage (CV) and constant current (CC) modes with 0–60V output and 0–18A current capability, delivering low ripple and noise for signal-integrity applications. Comprehensive protection includes over-voltage, over-current, and over-temperature safeguards. Technical Specifications Electrical Performance Output voltage: 0–60V Output current: 0–18A Power output: 1080W High power factor for efficient utilization Low ripple and noise characteristics Control & Precision 12-bit D/A converter for voltage and current control Microprocessor-based control unit (MPU) Keyboard and knob input for digitalized system operation Remote sensing capability to compensate for cable losses Physical & Environmental Weight: 9.3 kg Modular architecture supporting 19-inch 4U rack mounting LCD display for output and configuration status Built-in buzzer alarm for operational alerts Compliance EMC: EN 61326-1, EN 55011, EN 61000-3-2, EN 61000-3-3 Safety: EN 61010-1, IEC 61010-1, UL 3111-1 (USA), CSA-C22.2 No. 1010.1 (Canada) Key Features Over-voltage, over-current, and over-temperature protection Output ON/OFF remote control for automated systems Self-test and software calibration functionality Constant voltage and constant current operation modes Compatibility & Integration RS-232C interface (standard) GPIB (IEEE-488.2) interface (optional; mutually exclusive with RS-232C) SCPI command support for automated control LabVIEW driver availability Typical Applications Ideal for precision DC power delivery in component testing, R&D laboratories, manufacturing test stations, and systems integration requiring programmable voltage and current with comprehensive protection.

Features & description

From manufacturer datasheet

Features

- Wide AC input and high power factor
- Output ON/OFF and built-in buzzer
- Standard RS-232C; optional GPIB (IEEE-488.2) cannot be installed together
- Modular architecture with rear output
- Do not confuse with PSH-6006 (6 A / 360 W) or PSH-6012 (12 A / 720 W)

PSH6018A Characteristics / Specifications

PARAMETER	VALUE
Model	PSH-6018A
Manufacturer	GW Instek
Instrument Type	Programmable switching DC power supply
Series	PSH
Alias	PSH6018A; PSH-6018
Output voltage	60 V
Output current	18 A
Rated power	1080 W
CV load regulation	0.1% + 5 mV
CV line regulation	0.05% + 5 mV
CC load regulation	0.2% + 15 mA
CC line regulation	0.2% + 15 mA
Voltage ripple rms	10 mVrms
Voltage ripple peak to peak	100 mVp-p, 20 Hz to 20 MHz
Current ripple	0.2% + 40 mA
Voltage resolution	20 mV (rating greater than 36 V)
Current resolution 60 V	10 mA
Program voltage accuracy	0.05% + 50 mV (rating greater than 36 V)
Program current accuracy 60 V	0.2% + 30 mA
Readback resolution	same as setpoint resolution
Readback accuracy	same as program accuracy
Readback temp coefficient	100 ppm per C (25 C $\pm$ 5 C)
Voltage rise 10 to	150 ms (95% rating load)
Voltage fall 90 to	150 ms (10% rating load)
CV recovery	2 ms (50% step, 25% to 75% load)

PARAMETER	VALUE
Protection	OVP, OCP, OTP, rush current
Output on off	provided
Interface standard	RS-232C
Interface option	GPIO IEEE-488.2 (not simultaneous with RS-232C)
AC power	90 V to 250 V, 50/60 Hz (family also lists 85 V to 250 V)
Dimensions	268 mmWx 141 mmHx 388 mmDWeight: approximately 9.3 kg
Accessories	instruction manual
Display	LCD

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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Notes
Specs from GW Instek PSH-Series specification sheet, 60 V / 18 A (PSH-6018) in the 1080 W / 268 mm column.
Catalog name is PSH-6018A. Do not apply PSH-6006 6 A / 3.3 kg rows.

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.