

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

INSTEK/GW

GW Instek GPS-1850D Linear DC Power Supply

Key Features - Single 3.5-digit 0.5 inch LED versus analog GPS-1850 - Same 18 V / 5 A / 90 W output as GPS-1850 - Hi/Lo current-range switch - Remote control terminals - Meter accuracy plus/minus (0.5 percent of reading plus 2 digits) - 128 × 145 × 285 mm chassis Technical Specifications Model: GPS-1850D Manufacturer: GW Instek Instrument Type: Linear DC power supply Series: GPS Alias: GPS1850D; Instek GPS-1850D Output Voltage: 0 to 18 V Output Current: 0 to 5 A Rated Power: 90 W CV Line Regulation: 0.01 percent plus 3 mV or less CV Load Regulation: 0.01 percent plus 5 mV or less (rating current greater than 3 A) CV Ripple Noise: 1 mVrms or less, 5 Hz to 1 MHz (rating current greater than 3 A) Recovery Time: 100 us or less (50 percent load change, minimum load 0).

**MODEL****Instek/GW GPS-1850D****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****GPS-1850D****LISTING**<https://aumictechlabs.com/products/gps-1850d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Instek GPS-1850D is a reliable and versatile single output DC power supply designed for electronics testing, circuit design, and educational purposes. Delivering up to 90W, it features overload and reverse polarity protection for enhanced safety and continuous or dynamic load operation, offering flexibility for various testing scenarios. The clear LED display ensures accurate

voltage and current monitoring, making it an excellent choice for both professionals and students in electronics.

Features & description

From manufacturer datasheet

Features

- Single 3.5-digit 0.5 inch LED versus analog GPS-1850
- Same 18 V / 5 A / 90 W output as GPS-1850
- Hi/Lo current-range switch
- Remote control terminals
- Meter accuracy plus/minus (0.5 percent of reading plus 2 digits)
- 128 × 145 × 285 mm chassis

GPS1850D Characteristics / Specifications

PARAMETER	VALUE
Model	GPS-1850D
Manufacturer	GW Instek
Instrument Type	Linear DC power supply
Series	GPS
Alias	GPS1850D; Instek GPS-1850D
Output Voltage	0 to 18 V
Output Current	0 to 5 A
Rated Power	90 W
CV Line Regulation	0.01 percent plus 3 mV or less
CV Load Regulation	0.01 percent plus 5 mV or less (rating current greater than 3 A)
CV Ripple Noise	1 mVrms or less, 5 Hz to 1 MHz (rating current greater than 3 A)
Recovery Time	100 us or less (50 percent load change, minimum load 0.5 A)
Temperature Coefficient	300 ppm perCor less
CV Output Range	0 to rating voltage continuously adjustable
CC Line Regulation	0.2 percent plus 3 mA or less
CC Load Regulation	0.2 percent plus 3 mA or less
CC Ripple Current	3 mArms or less
CC Output Range	0 to rating current continuously adjustable, Hi/Lo switchable
Meter Type	3.5 digit 0.5 inch LED (GPS-1830D/1850D/3030D)
Meter Accuracy	plus/minus (0.5 percent of reading plus 2 digits)
Insulation Chassis Terminal	20 Mohm or above at DC 500 V
Insulation Chassis AC Cord	30 Mohm or above at DC 500 V
AC Power	100/120/220/240 V plus/minus 10 percent, 50/60 Hz
Dimensions	128 mmWx 145 mmHx 285 mmDWeight: approximately 5 kg
Accessories	user manual, power cord, GTL-105 or GTL-104 test lead

PARAMETER	VALUE
Related Analog	GPS-1850
Related 30 V Digital	GPS-3030D
Spec Condition	30 minutes warm-up, +20 C to +30 C
Protection	overload and reverse polarity
Remote Control	rear terminals for external programmability

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	GPS-1850D
Manufacturer	GW Instek
Instrument Type	Linear DC power supply
Series	GPS
Alias	GPS1850D; Instek GPS-1850D
Output Voltage	0 to 18 V
Output Current	0 to 5 A
Rated Power	90 W
CV Line Regulation	0.01 percent plus 3 mV or less
CV Load Regulation	0.01 percent plus 5 mV or less (rating current greater than 3 A)
CV Ripple Noise	1 mVrms or less, 5 Hz to 1 MHz (rating current greater than 3 A)
Recovery Time	100 us or less (50 percent load change, minimum load 0.5 A)
Temperature Coefficient	300 ppm per°C or less
CV Output Range	0 to rating voltage continuously adjustable
CC Line Regulation	0.2 percent plus 3 mA or less
CC Load Regulation	0.2 percent plus 3 mA or less
CC Ripple Current	3 mA rms or less
CC Output Range	0 to rating current continuously adjustable, Hi/Lo switchable
Meter Type	3.5 digit 0.5 inch LED (GPS-1830D/1850D/3030D)
Meter Accuracy	plus/minus (0.5 percent of reading plus 2 digits)
Insulation Chassis Terminal	20 Mohm or above at DC 500 V
Insulation Chassis AC Cord	30 Mohm or above at DC 500 V
AC Power	100/120/220/240 V plus/minus 10 percent, 50/60 Hz
Dimensions	128 mmWx 145 mmHx 285 mmDWeight: approximately 5 kg
Accessories	user manual, power cord, GTL-105 or GTL-104 test lead
Related Analog	GPS-1850

PARAMETER	VALUE
Related 30 V Digital	GPS-3030D
Spec Condition	30 minutes warm-up, +20 C to +30 C
Protection	overload and reverse polarity
Remote Control	rear terminals for external programmability

Notes

Specs from the GW Instek GPS-Series specification sheet. GPS-1850D is the digital-meter 18 V 5 A unit; GPS-1850 is analog. Load regulation and ripple use the greater-than-3 A 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

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

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