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Data Sheet

August 13, 2026

GW INSTEK

GW Instek GPS-1850 Linear DC Power Supply

Key Features - Analog-meter GPS-1850 versus digital GPS-1850D (0.5 inch LED) - Hi/Lo current-range switch - Remote control terminals - Overload and reverse-polarity protection - Internal continuous or dynamic load select - Light 128 × 145 × 285 mm chassis Technical Specifications Model: GPS-1850 Manufacturer: GW Instek Instrument Type: Linear DC power supply Series: GPS Alias: GPS1850; Instek GPS-1850 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

GW Instek GPS-1850

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

GPS-1850

LISTING

<https://aumictechlabs.com/products/gps-1850-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The GW Instek GPS-1850 is a 90W, single-output, linear DC power supply that delivers dependable power . It features overload and reverse polarity protection, ensuring the safety of both the power supply and the connected devices. With its high regulation and low ripple/noise characteristics, the GPS-1850 provides a clean and stable power source, making it suitable for educational purposes, hobbyist projects, and general laboratory use.

Features & description

From manufacturer datasheet

Features

- Analog-meter GPS-1850 versus digital GPS-1850D (0.5 inch LED)
- Hi/Lo current-range switch
- Remote control terminals
- Overload and reverse-polarity protection
- Internal continuous or dynamic load select
- Light 128 × 145 × 285 mm chassis

GPS1850 Characteristics / Specifications

PARAMETER	VALUE
Model	GPS-1850
Manufacturer	GW Instek
Instrument Type	Linear DC power supply
Series	GPS
Alias	GPS1850; Instek GPS-1850
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 mArms or less
CC Output Range	0 to rating current continuously adjustable, Hi/Lo switchable
Meter Type	analog Vmeter and Imeter
Meter Class	2.5 class
Meter Size	50 mm x 50 mm
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 mmW x 145 mmH x 285 mmDWeight: approximately 5 kg

PARAMETER	VALUE
Accessories	user manual, power cord, GTL-105 or GTL-104 test lead
Related Digital	GPS-1850D 3.5 digit 0.5 inch LED
Related 30 V	GPS-3030 analog 0 to 30 V 0 to 3 A
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	
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Instrument Type	Linear DC power supply
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Alias	GPS1850; Instek GPS-1850
Output Voltage	0 to 18 V
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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
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Meter Class	2.5 class
Meter Size	50 mm x 50 mm
Insulation Chassis Terminal	20 Mohm or above at DC 500 V
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AC Power	100/120/220/240 V plus/minus 10 percent, 50/60 Hz
Dimensions	128 mmW x 145 mmH x 285 mmDWeight: approximately 5 kg
Accessories	user manual, power cord, GTL-105 or GTL-104 test lead

PARAMETER	VALUE
Related Digital	GPS-1850D 3.5 digit 0.5 inch LED
Related 30 V	GPS-3030 analog 0 to 30 V 0 to 3 A
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-1850 uses analog meters; GPS-1850D uses a 3.5-digit 0.5 inch LED. Load regulation and ripple follow the rating-current 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

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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.