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Data Sheet

July 30, 2026

TEKTRONIX

Tektronix CPS250 DC Power Supply

The Tektronix CPS250 is a triple-output DC bench power supply. Tektronix documentation describes it as a multifunction bench or portable instrument with one fixed 5 V output for TTL applications and two variable 0 to 20 V, 0.5 A outputs for semiconductor test and experimental work. Outputs may also be externally configured for series or parallel operation. The CPS250 is intended for general laboratory DC power needs, including TTL logic supply, semiconductor device testing, educational lab benches, and compact stacked instrument setups. Its compact tilt-bail design is suited to fundamental no-fuss supply requirements where space is limited. The CPS250 is intended for general laboratory DC power needs, including TTL logic supply, semiconductor device testing, educational lab benches, and compact stacked instrument setups. Its compact tilt-bail design is suited to fundamental no-fuss supply requirements where space is limited.



MODEL

Tektronix CPS250

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

CPS250

LISTING

<https://aumictechlabs.com/products/cps250-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Tektronix CPS250 is a triple-output DC power supply engineered for benchtop electronic testing and development. It delivers one fixed 5V, 2A output and two independently adjustable 0–20V, 0.5A outputs, each capable of 10 W maximum power. The unit operates in both constant voltage and constant current modes, with variable current limiting to protect devices under test. Technical Specifications Output Configuration Fixed output: 5V, 2A (constant voltage with

foldback current limiting) Variable outputs (×2): 0–20V, 0.5A each (constant voltage/constant current) Maximum per output: 10 W Performance Voltage ripple and noise: 2 mV RMS (5 Hz to 1 MHz) Current ripple and noise: 3 mA RMS (5 Hz to 1 MHz) Load regulation (voltage): 5 mV Load regulation (current): 6 mA Line regulation (voltage): 10 mV Line regulation (current): 3 mA Series mode tracking error: $\pm 0.2\%$ ± 20 mV Operating Modes Parallel: two 0–20V outputs combined to 0–20V, 1.0A maximum Series: two outputs combined to 0–40V, 0.5A or ± 20 V, 0.5A

Key Features

Linear variable regulation uses LM723 voltage regulator ICs with BJT pass transistors for stable output. Dual analog meters provide switchable voltage and current monitoring across all outputs. Each output provides independent red (positive), black (negative), and green (chassis ground) terminals. Visual overload indicators alert users to fault conditions. Adjustable current limiting protects connected equipment without hard shutdown. The compact benchtop design includes a tilt-bail handle for portability.

Typical Applications

The CPS250 suits laboratory circuit development, component characterization, and prototype power distribution where independent or combined output flexibility is required. The dual adjustable outputs enable simultaneous supply to multiple circuits with different voltage requirements.

Compatibility & Integration

Input power: 110V, 60 Hz. Safety certifications: UL1244, CSA231, EN61010-1, Denturi Mark. CE and UL compliant.

Features & description

From manufacturer datasheet

Features

• Triple output DC power supply • One fixed 5 V, 2 A supply • Two variable 0 to 20 V, 0.5 A supplies • Independent, series, and parallel operating modes • Variable current limiting • Overload indicators • Dual switchable analog meters • Linear regulated design • Locking multiposition handle that folds under for stacking

CPS250 Characteristics / Specifications

PARAMETER	VALUE
Model	CPS250
Instrument Type	Triple Output DC Power Supply
Outputs	Two variable 0 to 20 VDC supplies plus one fixed 5 VDC supply Output Ratings
Fixed Output Voltage	5.0 VDC (5.0 +/-0.1 VDC at 2.0 A maximum per user manual)
Fixed Output Current	2.0 A maximum (foldback limited)
Variable Output Voltage	0 to 20 VDC each
Variable Output Current	0 to 0.5 A each (constant-current capable)
Independent Mode	Two variable 0 to 20 V (CV), 0.5 A (CC)
Parallel Mode	One 0 to 20 V, 1.0 A maximum
Series Mode	One 0 to 40 V, 0.5 A maximum, or one +/-20 V, 0.5 A Regulation And Noise
Tracking Error	+/-0.2% +/-20 mV Metering And Indicators
Meters	Two switchable analog front-panel meters
Voltage Indicator	0 to 25 VDC +/-2.5% of full scale
Current Indicator	approximately 0 to 600-800 mA +/-2.5% of full scale (datasheet lists 0-800 mA; user manual lists 0-600 mA)
Overload Indicators	Yes Physical And Environmental
Width	240 mm (9.46 in)
Height	100 mm (3.94 in)
Depth	230 mm (9.0 in)
Weight	5.1 kg (11.2 lb)
Operating Temperature	10 C to 40 C, 75% RH
Storage Temperature	-10 C to 60 C, 80% RH Electrical
Line Voltage Ranges	90-110, 108-132, 198-242, and 216-250 VAC at 50-60 Hz
Power Consumption	175 VA, 160 W maximum

PARAMETER	VALUE
Isolation	Chassis to terminal greater than 50 MOhm at 500 VDC; chassis to power cord greater than 50 MOhm at 500 VDC
Safety/EMC References	UL1244, CSA231, EN61010-1; EMC meets Directive 89/336/EEC Operational Notes Two or three outputs may be externally wired to produce voltages other than the standard front-panel configurations. The CPS250 ships with operator documentation, test leads, and a power cord configuration for the intended market. Variable current limiting and overload indication support safe use with experimental circuits.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	10 C to 60 C, 80% RH
Operating temperature	10 C to 40 C, 75% RH
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Width	240 mm (9.46 in)
Height	100 mm (3.94 in)
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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	CPS250
Instrument Type	Triple Output DC Power Supply
Outputs	Two variable 0 to 20 VDC supplies plus one fixed 5 VDC supply
Output Ratings	
Specifications	
PARAMETER	VALUE
Fixed Output Voltage	5.0 VDC (5.0 +/-0.1 VDC at 2.0 A maximum per user manual)
Fixed Output Current	2.0 A maximum (foldback limited)
Variable Output Voltage	0 to 20 VDC each
Variable Output Current	0 to 0.5 A each (constant-current capable)
Independent Mode	Two variable 0 to 20 V (CV), 0.5 A (CC)
Parallel Mode	One 0 to 20 V, 1.0 A maximum
Series Mode	One 0 to 40 V, 0.5 A maximum, or one +/-20 V, 0.5 A
Regulation And Noise	
Line Regulation, Variable Outputs: 0.01% + 3 mV (CV); 0.2% + 3 mA (CC)	
Load Regulation, Variable Outputs: 0.01% + 3 mV (CV); 0.2% + 6 mA (CC)	
Line Regulation, Fixed Output: less than or equal to 10 mV (CV)	
Load Regulation, Fixed Output: 0.1% + 5 mV (CV)	
Ripple/Noise, Variable Outputs: 2 mV RMS, 5 Hz to 1 MHz (CV); 3 mA RMS, 5 Hz to 1 MHz (CC)	
Ripple/Noise, Fixed Output: 2 mV RMS	
Tracking Error: +/-0.2% +/-20 mV	
Metering And Indicators	
Specifications	
PARAMETER	VALUE
Meters	Two switchable analog front-panel meters
Voltage Indicator	0 to 25 VDC +/-2.5% of full scale
Current Indicator	approximately 0 to 600-800 mA +/-2.5% of full scale (datasheet lists 0-800 mA; user manual lists 0-600 mA)
Overload Indicators	Yes

Physical And Environmental

PARAMETER	VALUE
Width	240 mm (9.46 in)
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Depth	230 mm (9.0 in)
Weight	5.1 kg (11.2 lb)
Operating Temperature	10 C to 40 C, 75% RH
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Electrical

Electrical

PARAMETER	VALUE
Line Voltage Ranges	90-110, 108-132, 198-242, and 216-250 VAC at 50-60 Hz
Power Consumption	175 VA, 160 W maximum
Isolation	Chassis to terminal greater than 50 MOhm at 500 VDC; chassis to power cord greater than 50 MOhm at 500 VDC
Safety/EMC References	UL1244, CSA231, EN61010-1; EMC meets Directive 89/336/EEC

Operational Notes

Two or three outputs may be externally wired to produce voltages other than the standard front-panel configurations. The CPS250 ships with operator documentation, test leads, and a power cord configuration for the intended market. Variable current limiting and overload indication support safe use with experimental circuits.

Notes

This manual OEM source was compiled from the official Tektronix CPS250 product datasheet and CPS250 Triple Output Power Supply User Manual (070-6740-03).

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

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Generated July 30, 2026

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