DC Power Supplies

Tektronix PWS2000 Series Data Sheet



Features & Benefits

Key Performance Specifications

- Linear Regulation
- Up to 72 V Output Voltage
- 0.05% Basic Voltage Accuracy
- 0.2% Basic Current Accuracy
- 10 mV / 10 mA Programming Resolution
- Less than 3 mV_{p-p} Ripple and Noise

Available Functions and Features

- Bright Display
- 20 User-defined Setup Memories
- Direct Parameter Entry using Numeric Keypad
- Vary Voltage or Current in User-selectable Steps

3-year Warranty



Generate the Voltage or Current You Need

With wide current and voltage ranges, plus 10 mA and 10 mV resolution, the PWS2000 Power Supply Series satisfies a wide variety of applications. Low-noise linear regulation and 0.05% voltage accuracy provide the clean, accurate power you need at a price you can afford.

Prevent Damaged Circuits and Lost Test Time

The numeric keypad makes it easy to specify a precise current limit before you start your test. You can also specify a maximum output voltage, which will prevent accidental voltage settings above the specified maximum. A user-definable password allows you to lock the front panel to prevent unwanted adjustments during critical tests.

Designed to Make Your Work Easier

The PWS2000 Power Supply Series is designed with the ease-of-use and familiar operation you expect from Tektronix.

Intuitive Operation

The direct-entry numeric keypad makes it easy to enter precise voltage and current values. Up/Down controls, with variable step-size, allow you vary output parameters in an increment size you choose.

Bright Display

A bright vacuum fluorescent display with large digits provides excellent readability at a distance, at an angle, or under dim lighting conditions.

Setup Memories

You can save your instrument settings in one of the 20 internal memory locations by simply pressing the Save button. Each time you want to recall that setting, just push the Recall button and choose the desired preset.

Performance You Can Count On

In addition to industry-leading service and support, the PWS2000 Power Supply Series comes backed with a three-year standard warranty.

Characteristics

Electrical				
Specifications	PWS2185	PWS2323	PWS2326	PWS2721
DC Output Rating				
Voltage	0 to 18 V	0 to 32 V	0 to 32 V	0 to 72 V
Current	0 to 5 A	0 to 3 A	0 to 6 A	0 to 1.5 A
Load Regulation				
Voltage	≤0.02% + 5 mV	≤0.02% + 5 mV	≤0.04% + 6 mV	≤0.02% + 4 mV
Current		≤0.1 % + 2	mA typical	
Line Regulation				
Voltage		≤0.1 %	+ 5 mV	
Current		≤0.1 % + 2	mA typical	
Ripple and Noise (20 Hz to 7 MHz)				
Voltage		≤1 mV _{RMS}	/ 3 mV _{p-p}	
Current		≤5 m	A _{RMS}	
Setting Resolution				
Voltage		10	mV	
Current		10	mA	
Setting Accuracy, (25 °C ± 5 °C)				
Voltage		≤0.05% -	+ 10 mV	
Current		≤0.2 % -	+ 10 mA	
Readback Resolution				
Voltage	10 mV <20 V: 10 mV ≥20 V: 100 mV			
Current		10		
Readback Accuracy, (25 °C ± 5 °C)				
Voltage	≤0.05% + 15 mV ≥20 V: ≤0.05% + 15 mV ≥20 V: ≤0.05% + 120 mV			
Current		≤0.1 % ·		

Display

Vacuum fluorescent display.

Memory

20 setup memories.

Power Source

Description
99 V _{RMS} to 132 V _{RMS}
198 V _{RMS} to 264 V _{RMS}
47 Hz to 63 Hz
250 VA
400 VA

Physical Characteristics

Dimension	mm	in.
Height	106	4.2
Width	256	10.0
Depth	383	15.0
Weight	kg	lb.
PWS2185	5.6	12.3
PWS2323/2326/2721	6.7	14.8

Environmental and Safety

Characteristic Description

Temperature	
Operating	0 °C to 40 °C
Storage	–20 °C to 70 °C
Warm up	20 minutes to full uncertainty specifications
Relative Humidity (Nonco	ondensing)
Operating and storage	5% to 95% relative humidity (% RH) at up to 40 °C, noncondensing
Storage	5% to 95% RH at up to 40 °C, noncondensing 5% to 60% RH above 40 °C to 70 °C, noncondensing
Altitude	
Operating	2,000 meters
Storage	4,000 meters
Electromagnetic Compatibility	European Union: EN 55011, Class A; IEC 61000-3-2; IEC 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 USA: FCC, CFR Title 47, Part 15, Subpart B, Class A Australia: EMC Framework, demonstrated per Emission Standard AS/NZS 2064 (Industrial, Scientific, and Medical Equipment)
Safety	European Union: Low Voltage directive 2006/95/EC; EN61010-1 2001 USA: Nationally recognized testing laboratory listing UL61010-1-2004 Canada: CAN/CSA C22.2 No. 61010-1 2004

Warranty

Three years.

Ordering Information

Models

Model	Description	
PWS2185	DC Power Supply, 18 V, 5 A	
PWS2323	DC Power Supply, 32 V, 3 A	
PWS2326	DC Power Supply, 32 V, 6 A	
PWS2721	DC Power Supply, 72 V, 1.5 A	

PWS2000 Includes: Power supply, line cord, user manual, Traceable Certificate of Calibration, and documentation CD (includes user manuals and technical reference).

Please specify power plug and preferred language option when ordering.

Instrument Options

Power Plug Options

Description	
North America	
Universal Euro	
United Kingdom	
Australia	
Switzerland	
China	
India	
Brazil	

Language Options

Option	Description	
LO	English	
L1	French	
L2	Italian	
L3	German	
L4	Spanish	
L6	Portuguese	
L7	Simplified Chinese	
L8	Traditional Chinese	
L9	Korean	
L10	Russian	

Service Options

Option	Description	
C3	Calibration Service 3 Years	
C5	Calibration Service 5 Years	
CA1	Provides a single calibration event, or coverage for the designated calibration interval, whichever comes first	
D1	Calibration Data Report	
D3	Calibration Data Report 3 Years (with Option C3)	
D5	Calibration Data Report 5 Years (with Option C5)	
R5	Repair Service 5 Years	

Contact Tektronix:

Data Sheet

ASEAN / Australasia (65) 6356 3900 Austria 00800 2255 4835* Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777 Belgium 00800 2255 4835* Brazil +55 (11) 3759 7600 Canada 1 800 833 9200 Central East Europe, Ukraine, and the Baltics +41 52 675 3777 Central Europe & Greece +41 52 675 3777 Denmark +45 80 88 1401 Finland +41 52 675 3777 France 00800 2255 4835* Germany 00800 2255 4835* Hong Kong 400 820 5835 India 000 800 650 1835 Italy 00800 2255 4835* Japan 81 (3) 6714 3010 Luxembourg +41 52 675 3777 Mexico, Central/South America & Caribbean (52) 56 04 50 90 Middle East, Asia, and North Africa +41 52 675 3777 The Netherlands 00800 2255 4835* Norway 800 16098 People's Republic of China 400 820 5835 Poland +41 52 675 3777 Portugal 80 08 12370 Republic of Korea 001 800 8255 2835 Russia & CIS +7 (495) 7484900 South Africa +41 52 675 3777 Spain 00800 2255 4835* Sweden 00800 2255 4835* Switzerland 00800 2255 4835* Taiwan 886 (2) 2722 9622 United Kingdom & Ireland 00800 2255 4835* USA 1 800 833 9200 * European toll-free number. If not accessible, call: +41 52 675 3777

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