



Power Supply Selector Guide Worldwide





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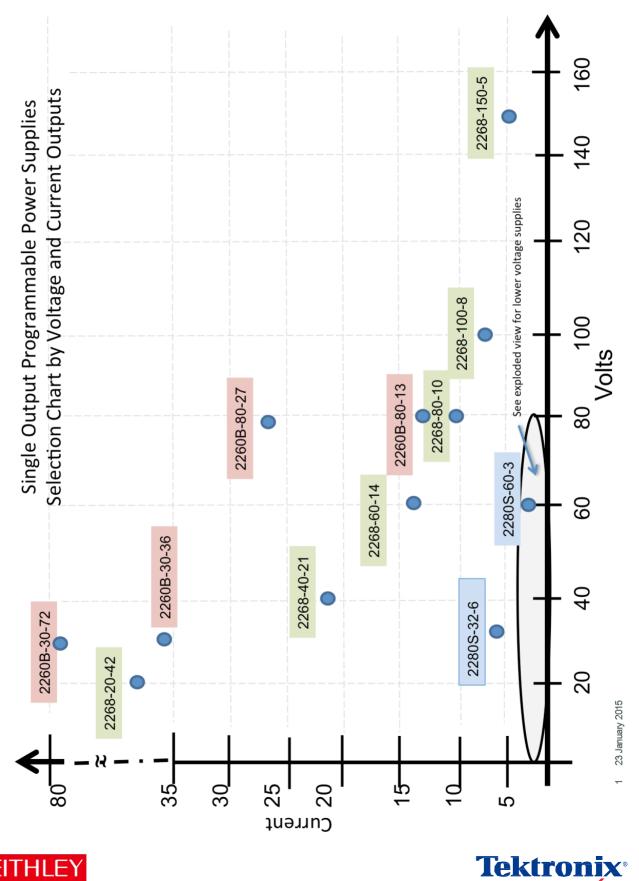


Tektronix and Keithley Power Supply Selection Guide

Tektronik PWS2165 1 90 W 18 V 5 A N/A Single-channel, Ion-programmable, benchisp inter power supply Tektronik PWS3232 1 96 W 32 V 3 A N/A Ion-programmable, Ion-programmable, benchisp inter power Tektronik PWS2721 1 108 W 72 V 15 A N/A benchisp inter power Tektronik PWS4205 1 100 W 20 V 5 A GPIB Keithley 2200-20-5 1 150 W 30 V 5 A GPIB Keithley 2200-30-5 1 150 W 30 V 5 A GPIB Keithley 2200-30-5 1 150 W 60 V 2.5 A GPIB Keithley 220-30-1 1 150 W 60 V 2.5 A GPIB Keithley 220-30-1 1 86 W 72 V 1.2 A GPIB Keithley 2203-30-1 2 45 W 30 V 1.5 A USB Z2303-30-1 2	Brand	Model	Channel	Power	Output Voltage	Output Current	Programmable	Others	
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Keithley2268-60-141850W60V14AGFIB/USB/LAN, RS-232, RS-485, Isolated Analog I/O, Non-Isolated Analog I/O15V and 5V Auxiliary Outputs, constant power control mode, foldback mode with programmable delayKeithley2268-100-81860W100V8.5A8.5A	Keithley	2268-40-21	1	850W	40V	21A		111 high and half-rack width	
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Keithley 2268-100-8 1 860W 100V 8.5A programmable delay	Keithley	2268-80-10	1	850W	80V	10.5A	I/O, Non-Isolated Analog		
Keithley 2268-150-5 1 850W 150V 5.6A	Keithley	2268-100-8	1	860W	100V	8.5A	1/0	programmable delay	
	Keithley	2268-150-5	1	850W	150V	5.6A			

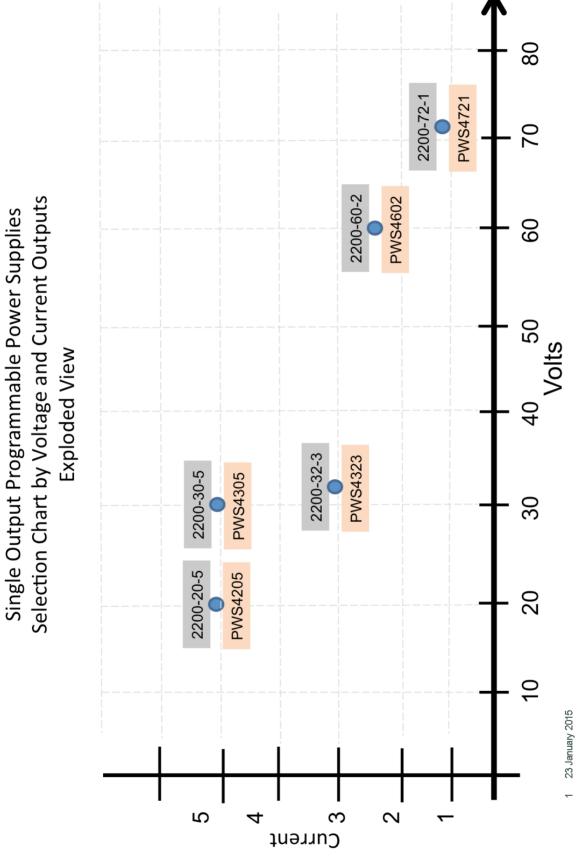






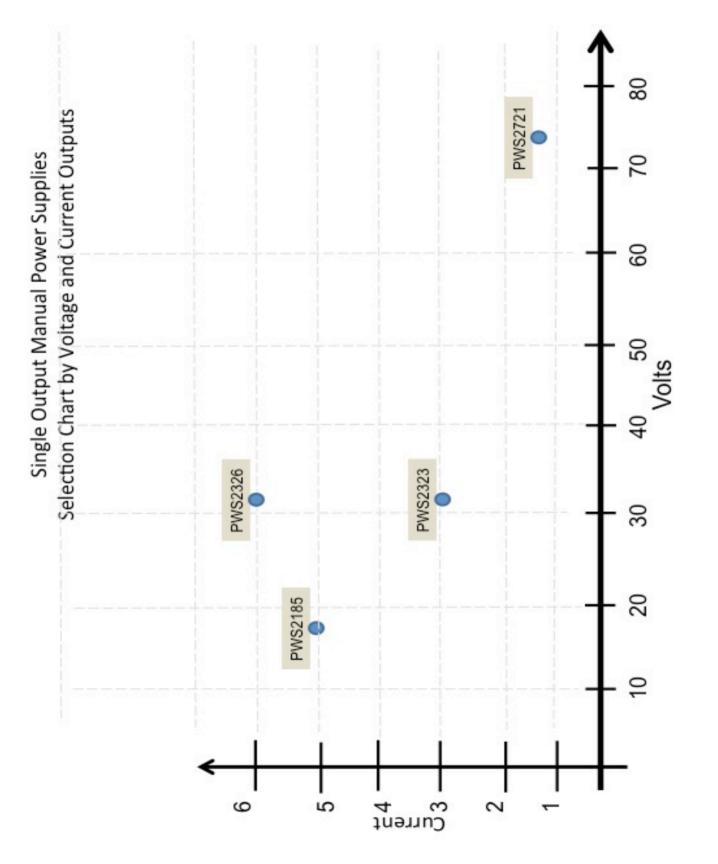


Power Supply Selector Guide



A Tektronix Company

Tektronix[®]





Tektronix[®]

PWS2000 Series Single-channel, Low-noise, Non-programmable Power Supply Designed for Benchtop Applications

Model	PWS2185	PWS2323	PWS2326	PWS2721			
Output Voltage	0 - 18V	0-32V	0-32V	0 – 72V			
Output Current	0 - 5A	0 – 3A	0 – 6A	0 - 1.5A			
Output Power	90W	96W	192W	108W			
Ripple and N	loise (20Hz ·	· 7MHz)					
СV р-р		≤ 3mV					
CV RMS		≤ 1mV					
CC RMS		≤ 5mA					
Programmin	g Accuracy	(25°C ±5°C)					
Voltage	≤0.05% + 10	OmV					
Current	≤0.2% + 10mA						
Readback a	ccuracy (25 °	°C ± 5 °C)					
Voltage	≤0.05% <20V: ≤0.05% + 15mV + 15mV ≥20V: ≤0.05% + 120mV						
Current	≤0.1% + 15mA						
Dimension	2U high, half rack width						
Others	Store up to	Store up to 20 sets of user settings					



PWS2000 Features

- Linear power supply with low ripple and noise
- Power up to 192W
- 0.05% voltage programming accuracy
- 0.2% current programming accuracy
- 10mV/10mA programming resolution

• Ripple and noise peak-to-peak value less than 3mV

- Store 20 sets of settings
- Keypad data entry
- Three-year warranty

With their good ripple and noise performance, the PWS2000 Series are excellent supplies for education and lab R&D use.





PWS4000/Series 2200 Single-channel, Low-noise, Programmable Power Supply Designed for Benchtop and Automated Test Applications



Model	PWS4205 2200-20-5	PWS4305 2200-30-5	PWS4323 2200-32-3	PWS4602 2200-60-2	PWS4721 2200-72-1		
Output Voltage	0-20 V	0-30 V	0 – 32 V	0 – 60 V	0-72 V		
Output Current	0 – 5 A	0 – 5 A	0 – 3 A	0 - 2.5 A	0 - 1.2 A		
Output Power	100 W	150 W	96 W	150 W	86 W		
Ripple and Noi	se (20 Hz-7 MHz)						
СV р-р	<3 mV	<4 mV	<4 mV	<5 mV	<3 mV		
CV RMS	<1 mV	<1 mV	<1 mV	<1 mV	<1 mV		
CC RMS	<3 mA	<4 mA	<3 mA	<3 mA	<3 mA		
Programming A	Accuracy (25 °C ±	: 5 °C)					
Voltage	≤0.03% +3 mV	≤0.03%+3 mV	≤0.03%+3 mV	≤0.03%+6 mV	≤0.03%+6 mV		
Current	≤0.05%+2 mA	≤0.05%+2.5 mA ≤0.05%+2 mA ≤0.05%+1.5 mA		≤0.05%+1.5 mA	≤0.05%+1 mA		
Readback Acc	uracy (25 °C ± 5 °	C)					
Voltage	≤0.02%+3 mV	≤0.02%+2.5 mV	≤0.02%+3 mV	≤0.02%+6 mV	≤0.02%+5 mV		
Current	≤0.05%+2 mA	≤0.05%+2.5 mA	≤0.05%+2 mA	≤0.05%+1.5 mA	≤0.05%+1 mA		
Programming	PWS series with	USB port, 2200 Seri	es with USB and	GPIB ports			
Dimension	2U high, half rack width						
Others	List mode support up to 7seven customized test sequences; each sequence can host 80 voltage and current steps						

PWS4000/2200 Features

- · Linear power supply with low ripple and noise
- Power up to 150W
- 0.03% voltage programming accuracy
- 0.05% current programming accuracy
- 1mV/0.1mA programming resolution, high precision power supply suitable for testing low power components
- · Remote sense function, further improve output voltage accuracy at the DUT
- List mode supports up to 80 steps to improve ATE test efficiency
- PWS Series supplied with a USB interface; 2200 Series supplied with USB and GPIB interfaces
- Three-year warranty

The PWS4000 and 2200 Series programmable power supplies have excellent accuracy for R&D and manufacturing testing of a wide range of components, sub-assemblies, and end products.





Series 2220/2230

Two or Three Channels, Low Noise, Programmable Power Supply Designed for Benchtop Applications

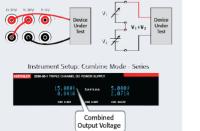
Model	2230-30-1, 2230J-30-1*,			2220-30-1,	2220J-30-1*,	
Model	2230	G-30-1, 2230GJ-3	2220G-30-1, 2220GJ-30-1*			
Output		3			2	
Channel		Ŭ			-	
Voltage	0-30V	0-30V	0-6V	0 – 30V	0-30V	
Current	0 – 1.5A	0 – 1.5A	0 – 5A	0 - 1.5A	0 – 1.5A	
Power		120W		90	WC	
Ripple and Noise)					
CVp-p 7MHz	< 3mV	< 3mV	< 3 mV	< 3mV	< 3mV	
CV RMS 7MHz	< 1mV	< 1mV	< 1 mV	< 1mV	< 1mV	
CC RMS 20MHz	< 5mA	< 5mA	< 6 mA	< 5mA	< 5mA	
Programming Ac	curacy (25°C ± 5°C)				
Voltage	≤0.03%+10mV	≤0.03%+10mV	≤0.03%+10mV	≤0.03%+10mV	≤0.03%+10mV	
Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	
Readback Accur	acy (25 °C ± 5 °C)					
Voltage	≤0.03%+10mV	≤0.03%+10mV	≤0.03%+10mV	≤0.03%+10mV	≤0.03%+10mV	
Current	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	≤0.1%+5mA	
Communication	Standard with USB	port; 22XXG/GJ v	vith GPIB Port			
Dimension	2U high, half rack v	vidth				
Others	All output channel i outputs synchronization			sitive and negative	voltage. Support	

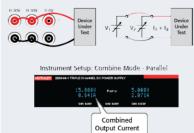
* J-versions are designed for 100VAC nominal input AC line voltage.



Series 2220/2230 Features

- Two or three outputs
- · Linear power supply with low ripple and noise
- All channels are isolated and can be controlled independently to maximize flexibility
- All channels have remote sensing to ensure maximum voltage accuracy at the DUT
- Two 30V channels can be connected in series or parallel and the display shows total output voltage and current
- 0.03% voltage programming accuracy and 0.1% current programming accuracy
- Three-year warranty





Series 2220/2230 Power Supply connections and operating modes for series and parallel connections

Series 2220/2230 Multi-Channel Power Supplies are excellent for use in student labs, R&D, and test labs. They provide 2 or 3 channels of isolated, high quality power to one or multiple DUTs.





Model 2231A-30-3 Triple-Channel DC Power Supply Offers Versatility and Ease of Use Designed for Benchtop Applications

Model	2231A-30-3					
Channel	1	2	3			
Output Voltage	0-30V	0-30V	0-5V			
Output Current	0 - 3 A	0 – 3A	0 – 3A			
Output Power		195 W				
Ripple and Noise (20I	Ripple and Noise (20Hz - 20MHz)					
СV р-р		≤5mV				
CV RMS		≤1mV				
CC RMS	≤6 mA					
Programming accura	cy (25°C ±5°C)					
Voltage	≤0.06% + 20mV					
Current	≤0.2% + 10mA					
Readback accuracy (25°C ± 5°C)					
Voltage	≤0.06% + 20mV					
Current	≤0.2% + 10mA					
Dimension	2U high, half rack width					
Others	Store up to 27 sets of user settings					



2231A-30-3 Features

- Three independent and adjustable outputs in one instrument
- Power up to 195W
- 0.06% voltage programming accuracy
- 0.2% current programming accuracy
- DC power with less than 5mVp-p noise
- Simultaneous display of all three outputs
- Double output levels by connecting the two 30V channels in series or parallel
- Store 30 sets of settings
- Turn off any output with a programmable timer
- Control from a PC
- Three-year warranty

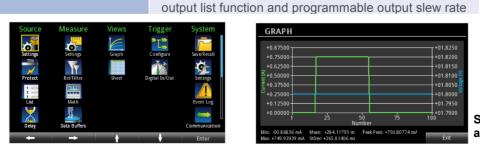
The Model 2231A-30-3 is a highly cost-effective power supply with 195W of power for student laboratories and laboratory R&D use.





2280S Precision Measurement Power Supply Single-channel, Programmable **Designed for Current Drain Analysis**

	-					
Model	2280S-32-6	2280S-60-3				
Output Voltage	0 - 32V	0 - 60V				
Output Current	0 - 6A	0 - 3.2A				
Output Power	192W	192W				
R	ipple and noise (20Hz - 20	MHz)				
CV p-p: (mV)	5mV	7mV				
CV RMS: (mV)	1mV	2mV				
CC RMS: (mA)	3mA	3mA				
	Programming accuracy	1				
Voltage	≤0.02%+3mV	≤0.02%+6mV				
Current	≤0.05%+0.1mA	≤0.05%+0.1mA				
	Readback accuracy					
Voltage	≤0.02%+2mV	≤0.02%+4mV				
Current 1A/10A Range	≤0.05%+250µA	≤0.05%+250µA				
10mA/100mA Range	≤0.05%+10µA	≤0.05%+10µA				
Readback resolution (under 6.5 digit setting)						
Voltage	10µV	10µV				
Current	10nA	10nA				
Minimum Measurement Time	0.002 Power Line Cycles					
	Response Time					
Voltage Rising Slew Rate	10V/s – 100V/s	10V/s – 100V/s				
Voltage Falling Slew Rate	10V/s – 100V/s	10V/s – 100V/s				
Load Transient Response Time	<50µs					
Programming	GPIB/USB/	LAN (LXI-C)				
Dimension	2U high, half rack width					
Others	Precision measurement power supply with 6½-digit DMM measurement capability, GUI, LXI web interface,					



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Series 2280S main menu screen (left) and graph screen (right)

The Series 2280S Precision Measurement Power Supply helps R&D and test engineers easily perform current drain analysis on low power products.







Series 2280S

- 6¹/₂-digit DMM measurement capability to observe load currents from 100nA to 6A
- High speed sampling capability, for capturing load current pulses as narrow as 140µs
- 192W linear power supply with low ripple and noise and $<50\mu s$, fast transient response
- Output list function
- Programmable voltage slew rate simulates supply rise time conditions
- GUI with waveform display of output current and voltage
- GPIB/USB/LAN port, with LXI web interface for remote control
- Three-year warranty

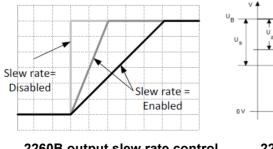
Power Supply Selector Guide

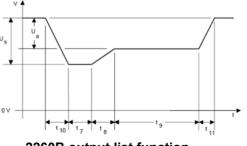
Series 2260B Single-Channel Programmable Power Supply Designed for Automated Test and Benchtop Applications

Model	2260B-30-36	2260B-30-72	2260B-80-13	2260B-80-27			
Output Voltage	0 – 30 V	0 - 30 V	0 – 80 V	0 – 80 V			
Output Current	0 – 36 A	0 – 72 A	0 - 13.5 A	0 – 27 A			
Output Power	360 W	720 W	360 W	720 W			
Ripple and Noise	e (noise bandwidt	h 20 MHz, ripple	bandwidth 1 MH:	Z)			
СV р-р	<60 mV	<80 mV	<60 mV	<80 mV			
CV RMS	<7 mV	<11 mV	<7 mV	<11 mV			
CC RMS	<72 mA	<144 mA	<27 mA	<54 mA			
Programming Ac	curacy						
Voltage	≤0.05%+10mV	≤0.05%+10mV	≤0.05%+10mV	≤0.05%+10mV			
Current	≤0.1%+30 mA	≤0.1%+60 mA	≤0.1%+30 mA	≤0.1%+30 mA			
Readback Accur	асу						
Voltage	≤0.1%+10 mV	≤0.1%+60 mV	≤0.1%+10 mV	≤0.1%+10 mV			
Current	≤0.15%+30 mA	≤0.1%+30 mA	≤0.1%+30 mA	≤0.1%+30 mA			
Response Time							
Rise Time	50ms	50ms	50ms	50ms			
Fall Time (Full Load)	50ms	50ms	50ms	50ms			
Fall Time (No Load)	500ms	500ms	500ms	500ms			
Load Transient Recovery Time	1ms	1ms	1ms	1ms			
Communication	USB/LAN, GPIB	Optional (2260-GF	PIB-USB adapter)				
Dimension	3U high; 1/3 rack width (720W);1/6 rack width (360W)						
Others	Adjustable output voltage and current slew rate, programming output resistance, serial and parallel connection, CC priority mode						

Series 2260B Features

- Single output, high power density, system power supply
- 360W and 720W output with voltage up to 80V or current up to 72A
- Programmable output voltage and current slew rate to avoid inrush current damage to a DUT
- List function
- Constant current control mode to current overshoot when powering up LED products
- Simulate battery output characteristics using the programmable output resistance function
- Supports analog programming and USB/LAN/GPIB programming for remote control
- Three-year warranty





2260B output slew rate control

2260B output list function

The Series 2260B Programmable DC Power Supplies provide plenty of power for automated environmental test systems, life testing systems, and production test systems. The programmable slew rates minimize inrush current to protect DUTs, especially for LED product test and Lithium battery charge characterization.





Series 2268 850 W DC Power Supplies Single-Channel Programmable Power Supply Designed for Automated Test Applications

Model	2268- 20-42	2268- 40-21	2268- 60-14	2268- 80-10	2268- 100-8	2268- 150-5		
Output Voltage and Current								
Output Voltage	20 V	40 V	60 V	80 V	100 V	150 V		
Output Current	42 A	21 A	14 A	10.5 A	8.5 A	5.6 A		
Output Power	850 W	850 W	850 W	850 W	860 W	850 W		
Output Noise (RMS, 300	kHz)							
Voltage	8 mV	8 mV	8 mV	8 mV	8 mV	10 mV		
Current	75 mA	45 mA	35 mA	25 mA	20 mA	16 mA		
Programming Accuracy								
Voltage	±20 mV	±40 mV	±60 mV	±80 mV	±100 mV	±150 mV		
Current	±84 mA	±42 mA	±28 mA	±21 mA	±17 mA	±11.2 mA		
Readback Accuracy								
Voltage	±20 mV	±40 mV	±60 mV	±80 mV	±100 mV	±150 mV		
Current	±84 mA	±42 mA	±28 mA	±21 mA	±17 mA	±11.2 mA		
Response Time								
Rise Time	60 ms	60 ms	60 ms	100 ms	100 ms	100 ms		
Fall Time (Full Load)	50 ms	50 ms	50 ms	80 ms	100 ms	150 ms		
Fall Time (No Load)	600 ms	800 ms	900 ms	1000 ms	1200 ms	1800 ms		
Transient Response Time	<1 ms	<1 ms	<1 ms	<2 ms	<2 ms	<2 ms		
Communications	LAN, USB, GPIB, RS-232, Isolated Analog I/O, Non-isolated I/O							
Dimensions	1U high, Half-Rack Width							

Two auxilliary outputs, 15V @ 0.5A and 5V @0.5A, constant power control

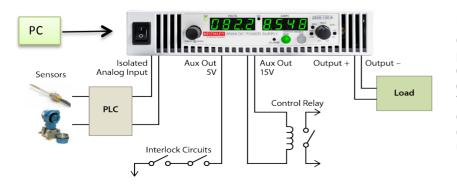
mode, control upp to 30 Series 2268 supplies through one PC interface by

interconnecting them through their RS-232 interfaces, programmable feedback

mode with programmable onset delay time

Series 2268 Features

- Compact, 1U high, ¹/₂rack enclosure provides the highest power in the smallest package
- Two auxiliary outputs power external devices and can eliminate the need for additional instrumentation
- Isolated analog inputs minimize noise on control lines
- LAN, USB, GPIB, RS-232, RS-485, and analog inputs are all standard
- Constant voltage, constant current, and constant power limit setting control
- Auto sequence control allows the internal execution of a set of commands to save bus communication time
- Numerous safety features protect the load and the supply including: over voltage and under voltage protection, over current protection, foldback, over temperature protection, and output interlock



Use a Series 2268 DC supply as part of a control system. Analog control signals can program the supply's output. In addition to driving the load, the supply's two auxiliary outputs can drive external devices or circuits. The auxiliary outputs can eliminate the need for extra power sources in a test system. Interlock connections can turn off the supply's output if an unsafe external condition is detected.



