

BENCH XR Series 600W Programmable Power Supplies



- **600W with Extended Range**
- **LXI Certified**
- **5 Models: Up to 400V and 33A**
- **Small, High-Density 1U Package**
- **Wireless Digital Remote Sense**
- **Built-In Voltage and Current Measurement**
- **Full OCP and OVP Protection**
- **Series and Parallel Operation**



Standard User Interface Includes:

- **Ethernet, USB 2.0 and Analog**
- **LXI Interface**
- **Command Capability for Keysight 603x, Sorenson DLM and Xantrex XFR**

Optional:

- **1U Rack-Mount Kits** (Single or Dual)

- **Medical Surgical Equipment**
- **Semiconductor Manufacturing**
- **Military Electronics**
- **Automotive Industry**
- **Research & Development**
- **Industrial Applications**
- **Forensic Crime Labs**
- **Telecommunications**

The New Versatile Power BENCH XR Series are economical, programmable, LXI Certified, DC power supplies that will give you just the right performance – at just the right price – in a small, compact package.

See model specifications and details on back.

BENCH XR Series 600W LXI Certified Programmable Power Supplies

| BENCH XR MODEL: | 30-33 XR | 50-20 XR | 100-10 XR | 200-5 XR | 400-2.5 XR |
|--|--|----------|-----------|-----------|------------|
| Output¹ | | | | | |
| Voltage, Volts | 30 V | 50 V | 100 V | 200 V | 400 V |
| Current, Amps | 33 A | 20 A | 10 A | 5 A | 2.5 A |
| Power, Watts | 600 W | 600 W | 600 W | 600 W | 600 W |
| Output Ripple & Noise² | | | | | |
| RMS Constant Voltage | 20 mV | 100 mV | 150 mV | 150 mV | 50 mV |
| P-P Constant Voltage | 60 mV | 100 mV | 100 mV | 100 mV | 200 mV |
| Regulation | | | | | |
| Load: 10-90% - Voltage | 15 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Load: 10-90% - Current | 15 mA | 15 mA | 15 mA | 15 mA | 15 mA |
| Line: 100-132 VAC Input ^{2,3} - Voltage | 15 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Line: 100-132 VAC Input ^{2,3} - Current | 15 mA | 15 mA | 15 mA | 15 mA | 15 mA |
| Line: 180-260 VAC Input ^{2,3} - Voltage | 15 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Line: 180-260 VAC Input ^{2,3} - Current | 15 mA | 15 mA | 15 mA | 15 mA | 15 mA |
| Programming Accuracy¹ | | | | | |
| Voltage 0.1%+ | 15 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Current 0.1%+ | 66 mA | 40 mA | 20 mA | 10 mA | 5 mA |
| Measurement Accuracy | | | | | |
| Voltage 0.1%+ | 15 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Current 0.1%+ | 60 mA | 40 mA | 15 mA | 10 mA | 5 mA |
| Transient Recovery Time³ | | | | | |
| Time | ≤1 ms | ≤1 ms | ≤1 ms | ≤1 ms | ≤1 ms |
| Supplemental Characteristics* | | | | | |
| Output response time (settle to within ±1% of the rated output, with a resistive load) | | | | | |
| Up, Full Load, Seconds | 0.08 s | 0.08 s | 0.08 s | 0.08 s | 0.08 s |
| Down, Full Load, Seconds | 0.08 s | 0.08 s | 0.08 s | 0.08 s | 0.08 s |
| Down, No Load, Seconds | 0.50 s | 0.50 s | 0.50 s | 0.50 s | 0.50 s |
| Command Response Time ⁴ , Milliseconds | 50 ms | | | | |
| Data Readback Transfer Time ⁵ , Milliseconds | 5 ms | | | | |
| Remote Sense Compensation Volts/Load Lead | 1 V | 1 V | 2 V | 4 V | 4 V |
| Over-Voltage Protection | | | | | |
| Range, Volts | 0.5-33 V | 0.5-55 V | 0.5-110 V | 0.5-220 V | 0.5-440 V |
| Accuracy, Volts | 0.3 V | 0.5 V | 1.0 V | 2.0 V | 4.0 V |
| Output Ripple and Noise ² , CC rms, Milliamps | 7 mA | 5 mA | 5 mA | 5 mA | 10 mA |
| Programming Resolution Voltage 0.05%+ | 10 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Measurement Resolution Current 0.05%+ | 20 mA | 20 mA | 10 mA | 5 mA | 2.5 mA |
| Front Panel Display Accuracy | | | | | |
| Voltage 0.1%+ | 10 mV | 25 mV | 50 mV | 100 mV | 200 mV |
| Current 0.1%+ | 33 mA | 20 mA | 10 mA | 5 mA | 2.5 mA |
| Mechanical | | | | | |
| Dimensions | Height 1.73 in. (44 mm) x Width 8.82 in. (224 mm) x Depth 10.30 in. (262 mm) | | | | |
| Weight | 6 lbs. (2.7 Kg) | | | | |

Notes

- Minimum voltage is guaranteed at greater than 1% of the rated output voltage. Minimum current is guaranteed at greater than 1% of the rated output current.
 - Measured with 20 MHz bandwidth and excluding line frequency ripple (see application note AN024 for measurement details).
 - Time for output voltage to recover within 0.5% of its rated output for a load change from 10 to 90% of its rated output current. Voltage set point from 10% to 100% of rated output.
 - Add this to the output reopens time to obtain the total programming time.
 - Time to provide data back to the controller using LAN interface (does not include A/D conversion time).
- * Supplemental characteristics are not warranted but are descriptions of typical performance determined either by design or type testing. Specifications subject to change without notice. Contact Versatile Power for full specifications and additional information. 06.01.20

Highest quality power products through the use of innovative design.



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