

# RACK XR Series 1500W Programmable Power Supplies



- 1500W with Extended Range
- LXI Certified
- 5 Models: Up to 400V and 70A
- 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

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

The New Versatile Power RACK 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.

 **Versatile Power**  
INNOVATIVE POWER & CONTROL SOLUTIONS

## RACK XR Series 1500W LXI Certified Programmable Power Supplies

RACK XR MODEL:	30-70 XR	50-40 XR	100-20 XR	200-10 XR	400-5R XR
<b>Output<sup>1</sup></b>					
Voltage, Volts	30 V	50 V	100 V	200 V	400 V
Current, Amps	70 A	40 A	20 A	10 A	5 A
Power, Watts <sup>6</sup>	1500 W	1500 W	1500 W	1500 W	1500 W
<b>Output Ripple &amp; Noise<sup>2</sup></b>					
RMS Constant Voltage	10 mV	20 mV	40 mV	80 mV	100 mV
P-P Constant Voltage	45 mV	75 mV	100 mV	200 mV	300 mV
<b>Regulation</b>					
Load: 10-90% - Voltage	0.05%	0.05%	0.05%	0.05%	0.05%
Load: 10-90% - Current	0.05%	0.05%	0.10%	0.05%	0.05%
Line (Change from 100 to 132 VAC Input or 180 to 260 VAC Input):					
Voltage	0.05%	0.05%	0.05%	0.05%	0.05%
Current	0.05%	0.05%	0.05%	0.05%	0.05%
<b>Programming Accuracy<sup>1</sup></b>					
Voltage	0.10%	0.15%	0.10%	0.10%	0.10%
Current	0.20%	0.15%	0.15%	0.15%	0.15%
<b>Measurement Accuracy</b>					
Voltage (0.1%+)	0.10%	0.15%	0.10%	0.10%	0.10%
Current (0.1%+)	0.20%	0.15%	0.15%	0.15%	0.15%
<b>Transient Recovery Time<sup>3</sup></b>					
Time	≤1.5 ms	≤1.5 ms	≤1.5 mss	≤1.5 ms	≤1.5 ms
<b>Supplemental Characteristics*</b>					
Output response time (settle to within ±1% of the rated output, with a resistive load)					
Up, 10-90%, Milliseconds	15 ms	30 ms	25 ms	30 ms	35 ms
Down, 90-10%, Milliseconds	25 ms	25 ms	25 ms	45 ms	40 ms
Down, No Load, Seconds	<2.5 s	<3.0 s	<4.0 s	<10.0 s	<10.0 s
Command Response Time <sup>4</sup> , Milliseconds	50 ms				
Data Readback Transfer Time <sup>5</sup> , 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 <sup>2</sup> , CC rms, Milliamps	20 mA	10 mA	10 mA	5 mA	5 mA
Programming Resolution <sup>1</sup>	0.1%				
Measurement Resolution <sup>1</sup>	0.1%				
Front Panel Display Accuracy					
Voltage	0.10%	0.15%	0.15%	0.10%	0.10%
Current	0.20%	0.15%	0.10%	0.15%	0.15%
<b>Mechanical</b>					
Dimensions	Height 1.73 in. (44 mm) x Width 19.0 in. (483 mm) x Depth 15.5 in. (394 mm)				
Weight	12.8 lbs. (5.8 Kg)				

### Notes

1. Rating is percent of full scale. Rating is for operation between 10% of minimum voltage or current rating to 100% of voltage rating and the current rating at that voltage. 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.
  2. Measured with 20 MHz bandwidth and excluding line frequency ripple (see application note AN024 for measurement details).
  3. 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.
  4. Add this to the output reopens time to obtain the total programming time.
  5. Time to provide data back to the controller using LAN interface (does not include A/D conversion time).
  6. 1500 Watt Output is only available with an AC input of 110 VAC or greater. With a lower AC line, output will be limited to 1100 Watts.
- \* 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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