

Sorensen XEL Series

75–180 W

90W Linear Benchtop Supply with V-Span

15–60 V

- Ideal for engineering lab use
- Digital features with analog controls
- S-Lock: Set and lock the voltage
- V-Span: user-defined voltage limits
- Small benchtop footprint
- Rack mounting 1/4 rack x 3U



1.5–6 A

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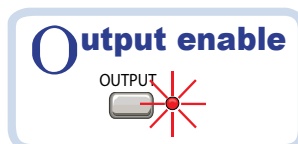
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The Sorensen XEL benchtop power supply is as easy to use as simple analog power supplies but offers the flexibility of advanced digital features. The user interface allows easy control with single-turn knobs including a fine control knob for voltage.

This easy-to-use interface is complemented by V-Spa, S-lock and Output Enable functions. V-Span allows the user to set a maximum and minimum value over which the knob control operates. This provides more precise control over the voltage as the knob operates over a narrow range as well as protecting devices under test by limiting the maximum voltage. S-Lock provides an easy method to output a regulated fixed voltage. Output Enable lets the user setup the desired voltage and current levels prior to actually turning on the output. All of these features in a laboratory bench supply are only found in the XEL series.

At 4.2x11.3 inches (108mm x 287mm), the XEL series occupies the least bench top space of any programmable power supply. The dual output model offers 90W per channel, also in a compact 8.4x11.3 inches (216mm x 287mm)

The dual output XEL30-3D is two 30V/3A power supplies in one unit. All of the features of the single output version are also in the dual output. Plus, the outputs can be operated in 4 modes: isolated, tracking, ratio tracking and true parallel. In addition, the outputs can be enable (on/off) independently or synchronously.



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PROGRAMMABLE POWER

XEL Series : Product Specifications

Output Ratings				
Model	XEL 15-5	XEL 30-3	XEL 60-1.5	XEL 30-3D
Voltage (VDC)	0-15	0-30	0-60	0-30
Current (ADC)	0.1-5	0.1-3	0.1-1.5	0.1-3/6
Power (W)	75	0-90	90	90/180
Output Performance				
Voltage Meter	4-digit meter			
Accuracy	0.1% + 10mV			
Resolution	10mV			
Current Meter	4-digit meter			
Accuracy	0.5% + 3mA	0.3% + 3mA	0.3% + 3mA	0.3% + 3mA*
Resolution	1mA	1mA	1mA	1mA
Low Current	<500mA			
Accuracy	0.3% + 0.3mA			
Resolution	0.1mA			
Voltage Ripple	0.4 mVRMS			
Voltage Noise	2 mVpp			
Current Ripple	5 mARMS			
Load Regulation				
Voltage	0.01% + 4.5mV with remote sense up to 0.5V line drop			
Current	0.01% + 500µA Specification applies for line resistance <0.5ohms when remote sense is used			
Line Regulation (10% line change)				
Voltage	0.01% + 2.0mV			
Current	0.01% + 250µA			
Transient Response	<50µs to within 50mV of setting (90% load change)			
Common				
AC Input	115 VAC ± 10%, 50/60Hz (230VAC available as option MHV)			
Power	280VA maximum			
Operating Temperature	5-40 °C, 20-80% RH			
Storage Temperature	-40 to +70 °C			
Weight	9.9 lbs. / 4.5 kgs, XEL30-3D: 18.8 lbs. / 9 kgs			
Size (WxHxD)	4.2x5.2x11.3 inches / 107x131x288 mm, XEL30-3D: 8.4x5.2x11.3 inches / 214x131x288 mm			
Options				
MHV	Configured for 230VAC input			
Accessories				
RM-XPDG2	Rack mount kit for XEL, XT and/or XPD			
Model Numbers				
XEL15-5	15 V, 5 A			
XEL30-3	30 V, 3 A			
XEL60-1.5	60 V, 1.5 A			
XEL30-3D	30 V, 3 A Dual Output			

* Current accuracy in parallel mode = 0.5% + 3mA

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