## Sorensen XEL Series

48-180 W

## 90W Linear Benchtop Supply with V-Span

6-250 V

- · Ideal for engineering lab use
- Digital features with analog controls
- Remote control for bench & system application
- S-Lock: Set and lock the voltage
- · V-Span: user-defined voltage limits
- Small benchtop footprint



370 mA-6 A

115









230

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-Span, 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. The outputs are fully independent and isolated. 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.

The programming "P" option includes LXI Class C Ethernet, USB, RS-232 and analog remote control. The option "PG" inlcudes GPIB programming plus all of the interface methods included in the "P" option described above.









## **XEL Series : Product Specifications**

Output Ratings								
Model	XEL 6-8	XEL 15-5	XEL 30-3	XEL 60-1.5	XEL 30-3D	XEL 120-0.75	XEL 250-0.37	
Voltage (VDC)	0-6	0-15	0-30	0-60	0-30	0-120	0-250	
Current (ADC)	0.1 mA - 8 A	0.1 mA - 5 A	0.1 mA - 3 A	0.1 mA - 1.5 A	0.1 mA - 3 / 6 A		0.01 mA - 375 m/	
Power (W)	48	75	90	90	90/180	90	90	
	40	/5	90	90	90/160	90	90	
Output Performance <sup>1</sup>								
Voltage Meter	4-digit meter							
Accuracy, Resolution		0.1% + 10mV, 10mV 0.1% + 100mV, 100mV						
Current Meter	4-digit meter $\pm (0.3\% + 0.005A) \text{ to } 3A, \pm (0.5\% + 0.005A)$ $\pm (0.3\% + 0.1\text{mA}), \pm (0.3\% + 0.01\text{mA}) \text{ on}$						220/ - 0.04 1)	
Accuracy		$\pm$ (0.3% + 0.005A) to 3A, $\pm$ (0.5% + 0.005A) to 6A, $\pm$ (0.3% + 0.5mA) on 500mA range					75mA range	
Resolution		1mA (0.1mA on 500mA range)					0.1mA (0.01mA on 75mA range)	
Low Current		< 500mA					< 75mA	
Accuracy, Resolution		0.3% + 0.3mA, 0.1mA					0.3% + 0.03mA, 0.01mA	
Voltage Ripple (20MHz bandwidth)		0.4 mVRMS					2mV	
Voltage Noise (20MHz bandwidth)		2 mVpp					10mVpp	
Current Ripple		< 0.2 μARMS (< 40 μARMS on 500mA range)					< 10 μARMS(< 1 μARMS on 75mA range	
Digital Programming Performance Opti	on							
Voltage Accuracy, Resolution		± (0.05% + 10mV), 1mV					± (0.05% + 50mV), 10mV	
Current Accuracy		$\pm (0.3\% + 0.005A)$ to 3A, $\pm (0.5\% + 0.005A)$					$\pm$ (0.3% + 0.1mA), $\pm$ (0.3% + 0.01mA) on	
Current Accuracy		$\pm$ (0.5% + 0.003A) to 3A, $\pm$ (0.5% + 0.003A) to 6A, $\pm$ (0.3% + 0.5mA) on 500mA range					$\pm$ (0.5% + 0.1111A), $\pm$ (0.5% + 0.0111IA) on 75mA range	
Current Resolution		0.1mA (0.01mA on 500mA range)				0.1mA (0.01mA on 75mA range)		
Load Regulation			(	3,7		, ,		
Voltage			0.01% ± 4	.5mV with remote :	sense un to 0 5V li	ne dron		
Current		0.010/ . 500			·	·		
		0.01% + 300	да эреспісаціон	applies for fille resi	istalice < 0.30illis	when remote sense is u	seu	
Line Regulation (10% line change)			0.040/ 0.0 1	,		0.04.0/	40. 1/	
Voltage		0.01% + 2.0mV					0.01% + 10mV	
Current		0.01% + 250μΑ						
Transient Response			< 250µs to	o within 50mV of s	etting (90% load o	change)		
<sup>1</sup> 120V & 250V models have a slightly modi	fied performance sp	pecification. See	data sheet or ma	anual on web site f	or complete speci	ications		
Common								
AC Input	115 VAC ± 109	115 VAC $\pm$ 10%, 50/60Hz ( 230VAC available as option MHV ) (100VAC available as option MJV)						
Power	280VA maximu	280VA maximum						
Operating Temperature	5-40 °C, 20-80	5-40 °C, 20-80% RH						
Storage Temperature	-40 to +70 °C	-40 to +70 °C						
Weight	9.9 lbs. / 4.5 kg	9.9 lbs. / 4.5 kgs, XEL30-3D: 18.8 lbs. / 9 kgs						
Size (WxHxD)	4.2x5.2x11.3 ir	4.2x5.2x11.3 inches / 107x131x288 mm, XEL30-3D: 8.4x5.2x11.3 inches / 214x131x288 mm						
Options								
MHV	Configured for	230VAC input						
MJV	Configured for	Configured for 100VAC input						
Programming "P"	LXI Class C Eth	LXI Class C Ethernet, USB, RS-232 and remote analog **						
Programming "PG"	GPIB 488.2, LX	GPIB 488.2, LXI Class C Ethernet, USB, RS-232 and remote analog **						
RM - XPDG-3	Rackmount Kit	Rackmount Kit						
Model Numbers								
XEL6-8	6 V, 8 A							
XEL15-5	15 V, 5 A							
XEL30-3	-	30 V, 3 A						
XEL60-1.5	60 V, 1.5 A							
XEL30-3D	-							
XEL120-0.75		30 V, 3 A Dual Output. The outputs are fully independent and isolated.  120V, 0.75A						
XEL250-0.37	250V, 0.73A							
7.ELE 3.U U.3.1	230 V, U.37A							

<sup>\*</sup> Current accuracy in parallel mode = 0.5% + 3mA \*\* Remote Analog not available on dual "D" output option

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