90W Linear Benchtop Supply with V-Span

- 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

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370 mA–6 A										
	\sim	115	230							
LXI		GPIB	RS232							

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.

> AMETEK **Programmable Power** 9250 Brown Deer Road San Diego, CA 92121-2267 USA



48-180 W

6-250 V

www.valuetronics.com

🗅 - Lock 🔒



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utput enable

OUTPUT

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 - 750 mA	0.01 mA - 375 mA					
Power (W)	48	75	90	90	90/180	90	90					
Output Performance ¹							I					
Voltage Meter				A-digit m	otor							
Accuracy, Resolution		4-digit meter 0.1% + 10mV, 10mV 0.1% + 100mV, 100mV										
Current Meter		4-digit meter										
Accuracy		± (0.3% + 0 to 6A, ± (0		± (0.3% + 0.1mA), ± (0.3% + 0.01mA) on 75mA range								
Resolution		1mA (0.1mA (0.01mA on 75mA range)								
Low Current				< 75mA								
Accuracy, Resolution		0.3		0.3% + 0.03mA, 0.01mA								
Voltage Ripple (20MHz bandwidth)				2mV								
Voltage Noise (20MHz bandwidth)				10mVpp								
Current Ripple		< 0.2 µARMS		$<$ 10 $\mu ARMS~(< 1~\mu ARMS~on~75mA~range)$								
Digital Programming Performance O	ption											
Voltage Accuracy, Resolution		± ((± (0.05% + 50mV), 10mV								
Current Accuracy		± (0.3% + 0.0 to 6A, ± (0.3		\pm (0.3% + 0.1mA), \pm (0.3% + 0.01mA) on 75mA range								
Current Resolution		0.1mA (0.01mA on 500m	nA range)		0.1mA (0.01mA on 75mA range)						
Load Regulation												
Voltage			0.01% + 4.	5mV with remote s	ense up to 0.5V li	ne drop						
Current		0.01% + 500µ	uA Specification a	applies for line resi	stance < 0.5 ohms	when remote sense is u	sed					
Line Regulation (10% line change)		•										
Voltage						0.01% + 10mV						
Current		0.01% + 2.0mV 0.01% + 250µA					0.01% + 50μA					
Transient Response			· · ·	within 50mV of se	tting (90% load c							
¹ 120V & 250V models have a slightly m	odified performance sr	ecification See	•		5							
5,	ounieu periormanee s	Section. Sec	data sheet of ma	indui on web site i	or complete speen							
Common	11E VAC + 100			option MUV) (100		ntion MIV						
AC Input Power	280VA maximu	115 VAC ± 10%, 50/60Hz (230VAC available as option MHV) (100VAC available as option MJV)										
Operating Temperature												
Storage Temperature	-40 to +70 °C	/0 111			5-40 °C, 20-80% RH							
Weight		-40 to +70 °C 9.9 lbs. / 4.5 kgs, XEL30-3D: 18.8 lbs. / 9 kgs										
	9.9 lbs. / 4.5 kg	s. XEL30-3D: 18	3.8 lbs. / 9 kas									
-			5	-3D: 8.4x5.2x11.3	inches / 214x131x	288 mm						
Size (WxHxD)			5	-3D: 8.4x5.2x11.3	inches / 214x131x	288 mm						
Size (WxHxD) Options	4.2x5.2x11.3 ir	iches / 107x131x	5	-3D: 8.4x5.2x11.3	inches / 214x131x	288 mm						
Size (WxHxD) Options MHV	4.2x5.2x11.3 ir Configured for	iches / 107x131x 230VAC input	5	-3D: 8.4x5.2x11.3	inches / 214x131x	288 mm						
Size (WxHxD) Options MHV MJV	4.2x5.2x11.3 ir Configured for Configured for	iches / 107x131x 230VAC input 100VAC input	288 mm, XEL30		inches / 214x131x	288 mm						
Size (WxHxD) Options MHV MJV Programming "P"	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23	288 mm, XEL30 32 and remote an			288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG"	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an	alog **		288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an	alog **		288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX Rackmount Kit	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an	alog **		288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL6-8	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX Rackmount Kit	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an	alog **		288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL6-8 XEL5-5	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX Rackmount Kit 6 V, 8 A 15 V, 5 A	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an	alog **		288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL6-8 XEL15-5 XEL30-3	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX Rackmount Kit 6 V, 8 A 15 V, 5 A 30 V, 3 A	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an	alog **		288 mm						
Size (WxHxD) Options	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX Rackmount Kit 6 V, 8 A 15 V, 5 A 30 V, 3 A 60 V, 1.5 A	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an t, USB, RS-232 ar	alog **	*	288 mm						
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL6-8 XEL6-8 XEL15-5 XEL30-3 XEL60-1.5	4.2x5.2x11.3 ir Configured for Configured for LXI Class C Eth GPIB 488.2, LX Rackmount Kit 6 V, 8 A 15 V, 5 A 30 V, 3 A 60 V, 1.5 A	iches / 107x131x 230VAC input 100VAC input ernet, USB, RS-23 I Class C Etherne	288 mm, XEL30 32 and remote an t, USB, RS-232 ar	alog ** Id remote analog *	*	288 mm						

* Current accuracy in parallel mode = 0.5% + 3mA ** Remote Analog not available on dual "D" ouput option

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⁹² WWW.Valuetronics.com