Sorensen XEL Series

75-180 W

90W Linear Benchtop Supply with V-Span

15-250 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



360 mA-6 A

115

230







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 "GP" inlcudes GPIB programming plus all of the interface methods included in the "P" option described above.



(台北)新北市中和區中正路764號6樓 TEL: (02)3234-6000 (新竹)新竹市北區光華二街72巷79號 TEL: (03)532-4199 官方網站: www.lockinc.com.tw

網路商店: www.pcstore.com.tw/lock

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









XEL Series : Product Specifications

Output Ratings							
Model	XEL 15-5	XEL 30-3	XEL 60-1.5	XEL 30-3D	XEL 120-0.75	XEL 250-0.37	
Voltage (VDC)	0-15	0-30	0-60	0-30	0-120	0-250	
Current (ADC)	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)	75	90	90	90/180	90	90	
Output Performance ¹							
Voltage Meter			<i>1</i> -c	ligit meter			
Accuracy, Resolution		4-digit meter 0.1% + 10mV, 10mV 0.1% + 100mV, 100mV					
Current Meter		0.170 1 10		ligit meter	0.170 1 100	, 100mv	
Accuracy		\pm (0.3% + 0.005A) to 3A, \pm (0.5% + 0.005A) to 6A, \pm (0.3% + 0.5mA) on 500mA range			± (0.3% + 0.1mA), ± (0.3% + 0.01mA) on 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 μ ARMS ($<$ 1 μ ARMS on 75mA range	
Digital Programming Performance Opti	ion						
Voltage Accuracy, Resolution		± (0.05% + 10mV), 1mV				± (0.05% + 50mV), 10mV	
Current Accuracy		± (0.3% + 0.005A) to 3A, ± (0.5% + 0.005A) to 6A, ± (0.3% + 0.5mA) on 500mA range			\pm (0.3% + 0.1mA), \pm (0.3% + 0.01mA) o 75mA range		
Current Resolution		0.1mA (0.01mA on 500mA range)				0.1mA (0.01mA on 75mA range)	
Load Regulation							
Voltage		0.0	1% + 4.5mV with rer	mote sense up to 0.5V	' line drop		
Current	0	0.01% + 4.5mV with remote sense up to 0.5V line drop 0.01% + 500μA Specification applies for line resistance <0.5ohms when remote sense is used					
Line Regulation (10% line change)			пецион аррнез тог п	ie resistance volsonni	- Switch remote sense is	useu	
Voltage		0.01% + 2.0mV				0.01% + 10mV	
Current	0.01% + 250μA					+ 50μΑ	
Transient Response			•				
¹ 120V & 250V models have a slightly mod	itied pertormance specit	ication. See data she	et or manual on web	site for complete spe	citications		
Common							
AC Input	115 VAC ± 10%, 50	$115 \text{VAC} \pm 10\%$, 50/60Hz (230VAC available as option MHV) (100VAC available as option MJV)					
Power	280VA maximum	280VA maximum					
Operating Temperature		5-40 °C, 20-80% RH					
Storage Temperature	-40 to +70 °C						
Weight		(EL30-3D: 18.8 lbs. / 9					
Size (WxHxD)				x11.3 inches / 214x13	1x288 mm		
	4.2x5.2x11.3 inche	s / 107x131x288 mm		x11.3 inches / 214x13	1x288 mm		
Size (WxHxD) Options MHV	4.2x5.2x11.3 inches	s / 107x131x288 mm /AC input		x11.3 inches / 214x13	1x288 mm		
Size (WxHxD) Options MHV MJV	4.2x5.2x11.3 inches Configured for 230' Configured for 100'	s / 107x131x288 mm /AC input /AC input	, XEL30-3D: 8.4x5.2x	x11.3 inches / 214x13	1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P"	4.2x5.2x11.3 inche Configured for 230' Configured for 100' LXI Class C Etherne	s / 107x131x288 mm /AC input /AC input t, USB, RS-232 and re	, XEL30-3D: 8.4x5.2x		1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG"	4.2x5.2x11.3 inches Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla	s / 107x131x288 mm /AC input /AC input t, USB, RS-232 and re	, XEL30-3D: 8.4x5.2x		1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3	4.2x5.2x11.3 inche Configured for 230' Configured for 100' LXI Class C Etherne	s / 107x131x288 mm /AC input /AC input t, USB, RS-232 and re	, XEL30-3D: 8.4x5.2x		1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3	4.2x5.2x11.3 inches Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla	s / 107x131x288 mm /AC input /AC input t, USB, RS-232 and re	, XEL30-3D: 8.4x5.2x		1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL15-5	4.2x5.2x11.3 inches Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla	s / 107x131x288 mm /AC input /AC input t, USB, RS-232 and re	, XEL30-3D: 8.4x5.2x		1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL15-5 XEL30-3	4.2x5.2x11.3 inche Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla	s / 107x131x288 mm /AC input /AC input t, USB, RS-232 and re	, XEL30-3D: 8.4x5.2x		1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL15-5 XEL30-3 XEL60-1.5	4.2x5.2x11.3 inche Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla Rackmount Kit 15 V, 5 A 30 V, 3 A 60 V, 1.5 A	AC input VAC input VAC input t, USB, RS-232 and ress C Ethernet, USB, R	emote analog ** S-232 and remote an	alog **	1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL15-5 XEL30-3 XEL60-1.5 XEL30-3D	4.2x5.2x11.3 inche Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla Rackmount Kit 15 V, 5 A 30 V, 3 A 60 V, 1.5 A 30 V, 3 A Dual Outp	AC input VAC input VAC input t, USB, RS-232 and ress C Ethernet, USB, R	, XEL30-3D: 8.4x5.2x	alog **	1x288 mm		
Size (WxHxD) Options MHV MJV Programming "P" Programming "PG" RM - XPDG-3 Model Numbers XEL15-5	4.2x5.2x11.3 inche Configured for 230' Configured for 100' LXI Class C Etherne GPIB 488.2, LXI Cla Rackmount Kit 15 V, 5 A 30 V, 3 A 60 V, 1.5 A	AC input VAC input VAC input t, USB, RS-232 and ress C Ethernet, USB, R	emote analog ** S-232 and remote an	alog **	1x288 mm		

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