

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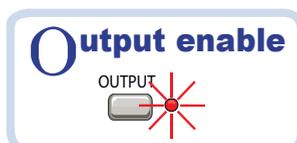
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The Sorensen XEL benchtop power supply is as easy to use as simple analog power supplies but offers the flexibility of advanced digital features. The user interface allows easy control with single-turn knobs including a fine control knob for voltage.

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)

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.

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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