

LAB-SP

PRIMARY SWITCHED BENCHTOP DC SOURCE



POSITIVE PROBLEM SOLVING **+ =**

The LAB-SP family provides a wide range of outputs in a convenient desktop format. A variety of analogue and computer interfaces are available for remote control.

These primary switched DC Sources enable the user to preset voltage and current limits prior to releasing the output. A useful feature is the adjustable over voltage protection. This provides an extra safeguard for sensitive loads in addition to the normal voltage limit. These units are also built with a sensing function to automatically compensate for voltage drops in the output lines. Active power factor correction of 0.99 is provided as standard.

- + Analogue and Computer Interfaces
- + Active Power Factor Correction
- + Voltage and Current Presets
- + High Power Density
- + Primary Switched

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FURTHER DETAILS

A wide selection of interfaces are available should the unit need to be operated remotely. 0-5Vdc or 0-10Vdc Isolated analogue interfaces can be integrated along with all the most popular methods of computer control.

TECHNICAL DATA

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Input Voltage	115 / 230Vac switchable
Input Frequency	47 - 63Hz
Harmonics	EN61000-3-2 A14
Isolation (Input to Output)	3000VAC
Isolation Class	1
Safety	EN 60950
Emission	EN 61000-6-4
Immunity	EN 61000-6-2
Voltage Regulation	± 0.05% + 2mV
Current Regulation	± 0.1% + 2mA
Response Time	<0.5ms
Ripple	<0.2%
Stability	0.05%
Overvoltage Protection	5 - 110% Vmax
Sense Compensation	2V at <35V / 5V at >35V
Display	3.5 digits for V and I
Protection	OC / OV / OT / OP
Analogue Interface	0 - 5 [10]V
Isolated Analogue Interface	0 - 5 [10]V
Interface RS232 / RS485 / USB	12 bit
Interface CAN	12 bit
Interface IEEE 488.2	12 bit
Operating Temperature	0-50°C
Operating Humidity	0-90% (non condensing)
Power Derating 50 - 70°C	-2%/°C
Cooling	Forced air front to back
Storage Temperature	-45 to + 85°C
Storage Humidity	0 - 95% (non condensing)
Vibration	10-55Hz / 1min/ 2G XYZ

SELECTION TABLE

Part Number	Max. Power	Voltage Range	Current Range	Dimensions (W × H × D)
LAB-SP 515	500W	0 - 15VDC	0 - 35A	112 × 222 × 360mm
LAB-SP 535	500W	0 - 35VDC	0 - 15A	112 × 222 × 360mm
LAB-SP 570	500W	0 - 70VDC	0 - 7.5A	112 × 222 × 360mm
LAB-SP 5150	500W	0 - 150VDC	0 - 3.5A	112 × 222 × 360mm
LAB-SP 715	750W	0 - 15VDC	0 - 50A	112 × 222 × 360mm
LAB-SP 735	750W	0 - 35VDC	0 - 25A	112 × 222 × 360mm
LAB-SP 770	750W	0 - 70VDC	0 - 12A	112 × 222 × 360mm
LAB-SP 7150	750W	0 - 150VDC	0 - 5A	112 × 222 × 360mm

OPTIONS

CODE	DESCRIPTION
/10POT	Potentiometer with scale
/6HE	Unit built in a 21HP × 6U euro cassette
/AF	Adjustable foot
/AI-5	0 - 5V analogue interface for all control and measurement functions
/AI-10	0 - 10V analogue interface for all control and measurement functions
/ATE	No front panel control or display. Analogue interface provided as standard
/ATI-5	Isolated 0 - 5V analogue interface for all control and measurement functions
/ATI-10	Isolated 0 - 10V analogue interface for all control and measurement functions
/ECS6	19" × 6U rack for up to 4 euro cassettes
/ECT	19" × 6U unit frame for up to 4 desktop units
/EP21	6U × 21HP grey blanking plate
/EP42	6U × 42HP grey blanking plate
/LT	IEEE 488.2 interface
/LT+LTRS232	IEEE 488.2 and RS-232 interfaces
/LT+LTRS485	IEEE 488.2 and RS-485 interfaces
/LTRS232	RS-232 interface
/LTRS485	RS-485 interface
/TG	Carrying handle
/USB	USB interface

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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