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# LAB-SP

# Primary Switched Benchtop DC Source

## Description

The LAB-SP family provides a wide range of outputs in a convenient desktop format. 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. If rack mounting is required then these units can be optionally built as 6U euro cassettes. A variety of analogue and computer interfaces are available for remote control.



- Analogue & computer interfaces
- Active power factor correction
- Voltage and current presets
- High power density
- Primary switched

## Selection Table

Part Number	Power	Output	Current	Dimensions (Width x Height x Depth)
LAB-SP 515	500W	0 - 15 VDC	0 - 35 A	112 x 222 x 360mm
LAB-SP 535	500W	0 - 35 VDC	0 - 15 A	112 x 222 x 360mm
LAB-SP 570	500W	0 - 70 VDC	0 - 7.5 A	112 x 222 x 360mm
LAB-SP 5150	500W	0 - 150 VDC	0 - 3.5 A	112 x 222 x 360mm
LAB-SP 715	750W	0 - 15 VDC	0 - 50 A	112 x 222 x 360mm
LAB-SP 735	750W	0 - 35 VDC	0 - 25 A	112 x 222 x 360mm
LAB-SP 770	750W	0 - 70 VDC	0 - 12 A	112 x 222 x 360mm
LAB-SP 7150	750W	0 - 150 VDC	0 - 5 A	112 x 222 x 360mm

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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## Options Table

Code	Description
/ATE.....	Without display and manual operation
/LT.....	IEEE488.2 interface with both listener and talker functions (12 bit resolution)
/LTRS232.....	RS 232, interface, listener and talker
/LTRS485.....	RS 485 interface, listener and talker
/LT+LTRS232.....	IEEE 488.2 & RS 232 listener and talker
/LT+LTRS485.....	IEEE 488.2 & RS 485 listener and talker
/AI-5.....	0 - 5 VDC Analogue interface for control and measurement
/AI-10.....	0 - 10 VDC Analogue interface for control and measurement
/ATI-5.....	Isolated 0 - 5 VDC analogue interface for control and measurement
/ATI-10.....	Isolated 0 - 10 VDC analogue interface for control and measurement
/CAN.....	CAN Interface with listener and talker functions
/USB.....	USB Interface with listener and talker functions
/ETH.....	Ethernet interface with listener and talker functions over a LAN
/PFC.....	Active PFC>0.97 for 2kW units (PFC of 0.99 is standard for 500W/750W)
/6HE.....	Units built into 6U eurocassettes (500W/750W are 21HP, 2kW is 42HP)
/TG.....	Carrying handle
/10POT.....	Locking potentiometer with scale
/AF.....	Adjustable feet
/ECT.....	19"x 6U frame for up to 4 desktop units
/ECS6.....	19"x 6U rack for up to 4 eurocassettes
/EP21.....	21HP grey blanking plate
/EP42.....	42HP grey blanking plate

## Technical Data

Input voltage.....	115/230Vac switchable
Input frequency.....	47-63Hz
Harmonics.....	EN61000-3-2 A14
Isolation (input to output).....	3000 VAC
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

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET 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. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. The photograph shows a 750W & 2kW LAB/SP. You're chosen unit may differ from that shown.