

LAB-SLR

DC POWER SUPPLY WITH AUTOMATIC RANGING



POSITIVE PROBLEM SOLVING **+ =**

The LAB-SLR provides a great deal of functionality in a compact desktop case. Not only is it a linear DC Source the LAB-SLR also has a load function built in.

There are 2 ranges with automatic crossover which allow higher voltage with lower current or lower voltage with higher current operation. When used as a constant current electronic load the unit will allow double the rated power to be taken for up to 5 minutes. In source mode the unit exhibits very fast setting times of typically 250 μ s.

- + Double Current or Voltage Through Automatic Range Switching
- + Analogue and Computer Interfaces Available
- + Desktop or 6U Cassettes for Rack Mounting
- + Two Quadrants Operation Source and Load
- + Voltage and Current Preset Function

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FURTHER DETAILS

As with the majority of ETPS instruments voltage and current limits can be preset and read before releasing the output. Adjustable overvoltage protection is also standard. When the sink or source operation is considered with the automatic ranging feature a single LAB-SLR can save the investment of up to 4 separate units.

TECHNICAL DATA

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Input Voltage, Switchable	115/230 VAC \pm 10%
Isolation	3700 VAC; 4250 VDC
Line Regulation	[\pm 10%] CV: 0.0125%
Line Regulation	[\pm 10%] CC: 0.02%
Load Regulation	[10-90%] CV: 0.0125%
Load Regulation	[10-90%] CC: 0.02%
Programming Accuracy	$<\pm$ 0.5%
Offset	$<\pm$ 4.0 mV
Ripple [Vpp] CV	$<$ 4.0 mV
Ripple [Vrms] CC	$<$ 4.0 mA
Temperature Coefficient	25 ppm/ $^{\circ}$ C
Transient Response Time	$<$ 100 μ s
Response Time	$<$ 500 μ s [typ. $<$ 250 μ s]
Sense [V / Line]	1.0 V
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 $^{\circ}$ C
Operating Humidity	0 - 90% (non condensing)
Power Derating 50 - 70 $^{\circ}$ C	-2%/ $^{\circ}$ C
Cooling 120 / 240 W	Forced air front to back
Storage Temperature	-45 to + 85 $^{\circ}$ C
Storage Humidity	0 - 95% (non condensing)

SELECTION TABLE

Part Number	Max. Power	Voltage Range 1*	Current Range 1	Voltage Range 2*	Current Range 2	Dimensions [W × H × D]
LAB-SLR 30-15	120W	0 - 30VDC	0 to ± 4A	0 - 15VDC	0 to ± 8A	112 × 222 × 360mm
LAB-SLR 60-30	120W	0 - 60VDC	0 to ± 2A	0 - 30VDC	0 to ± 4A	112 × 222 × 360mm
LAB-SLR 120-60	120W	0 - 120VDC	0 to ± 1A	0 - 60VDC	0 to ± 2A	112 × 222 × 360mm
LAB-SLR 230-215	240W	0 - 30VDC	0 to ± 8A	0 - 15VDC	0 to ± 16A	224 × 222 × 360mm
LAB-SLR 260-230	240W	0 - 60VDC	0 to ± 4A	0 - 30VDC	0 to ± 8A	224 × 222 × 360mm
LAB-SLR 2120-260	240W	0 - 120VDC	0 to ± 2A	0 - 60VDC	0 to ± 4A	224 × 222 × 360mm

*In sink mode operation is only possible down to 1V

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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POSITIVE
PEOPLE
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ETPS engineer electronic power supply and testing systems. Our problem solving skills provide the spark of innovation to some of the world's leading technology brands.



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