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LAB-SL DC Power Supply with Electronic Load

Description

The LAB-SL offers both DC source and load functions within a single instrument. When used as a DC source a precise output with a very low ripple is produced due to the linear controlled output stage. A very fast setting time of typically 250µs can be achieved. In both constant voltage and constant current operation the voltage and current can be preset and read on the digital display. The OVP level can also be preset and read. The instrument can be used as a constant current load by simple push button selection. 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.



- Constant voltage/current, presetable and readable
- Extremely fast setting response (approx. 250 µs)
- Optional analogue and computer interfaces
- Two quadrants operation; source and load
- Desktop or 21HP x 6U cassette
- Linear controlled
- Very low ripple

Selection Table

Part Number	Power	Output/Source	Load	Current	Dimensions (Width x Height x Depth)
LAB-SL 8	120W	0 - 8 VDC	1 - 8 VDC	0 - 15A	112 x 222 x 360mm
LAB-SL 15	120W	0 - 15 VDC	1 - 15 VDC	0 - 8A	112 x 222 x 360mm
LAB-SL 30	120W	0 - 30 VDC	1 - 30 VDC	0 - 4A	112 x 222 x 360mm
LAB-SL 60	120W	0 - 60 VDC	1 - 60 VDC	0 - 2A	112 x 222 x 360mm
LAB-SL 120	120W	0 - 120 VDC	1 - 120 VDC	0 - 1A	112 x 222 x 360mm
LAB-SL 28	240W	0 - 8 VDC	1 - 8 VDC	0 - 30A	224 x 222 x 360mm
LAB-SL 215	240W	0 - 15 VDC	1 - 15 VDC	0 - 16A	224 x 222 x 360mm
LAB-SL 230	240W	0 - 30 VDC	1 - 30 VDC	0 - 8A	224 x 222 x 360mm
LAB-SL 260	240W	0 - 60 VDC	1 - 60 VDC	0 - 4A	224 x 222 x 360mm
LAB-SL 2120	240W	0 - 120 VDC	1 - 120 VDC	0 - 2A	224 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
/TG.....	Carrying handle
/10POT.....	Potentiometer with scale
/AF.....	Adjustable Foot
/ECT.....	19" x 6 U Unit frame for up to 4 desktop units
/ECS6.....	19" x 6 U rack for up to 4 euro cassettes
/EP21.....	6U x 21HP grey blanking plate
/EP42.....	6U x 42HP grey blanking plate
/6HE.....	Unit built into a 21HP x 6U eurocassette

Technical Data

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 (<8.0 mA LAB/SL 8)
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 (2.0 V LAB/SL 8)
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.....	10-95% (non condensing)

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 illustrates a 120W unit. Your chosen unit may differ from that shown.