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LAB-SLR DC Power Supply with Automatic Ranging

Description

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 250µs. As with the majority of ET 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.



- Double current or voltage through automatic range switching
- Analogue & computer interfaces available
- Desktop or 6U cassettes for rack mounting
- Two quadrants operation source and load
- V & I preset function

Selection Table

Part Number	Power	Range 1	Current 1	Range 2	Current 2	Dimensions (Width x Height x Depth)
LAB-SLR 30-15	120W	0 - 30 VDC	0 - 4A	0 - 15 VDC	0 - 8A	112 x 222 x 360mm
LAB-SLR 60-30	120W	0 - 60 VDC	0 - 2A	0 - 30 VDC	0 - 4A	112 x 222 x 360mm
LAB-SLR 120-60	120W	0 - 120 VDC	0 - 1A	0 - 60 VDC	0 - 2A	112 x 222 x 360mm
LAB-SLR 230-215	240W	0 - 30 VDC	0 - 8A	0 - 15 VDC	0 - 16A	224 x 222 x 360mm
LAB-SLR 260-230	240W	0 - 60 VDC	0 - 4A	0 - 30 VDC	0 - 8A	224 x 222 x 360mm
LAB-SLR 2120-260	240W	0 - 120 VDC	0 - 2A	0 - 60 VDC	0 - 4A	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 (includes AI-5)
/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 - 5 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
/6HE.....	Units built into 6U eurocassettes (120W are 21HP) (240W are 42HP)
/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 eurocassettes
/EP21.....	Blank plate 6 U x 21 HP, grey
/EP42.....	Blank plate 6 U x 42 HP, grey

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
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
Analogue isolated interface.....	0-5(10)V
Interface RS 232/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)

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.