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LAB-S Rackmounting Linear DC Power Supplies

Description

The LAB-S range of DC Sources are ideal for use in applications where high power coupled with fast and precise regulation is paramount. A thyristor pre-regulation circuit provides the DC to the linearly controlled MOS output stage ensuring a very low ripple. This results in a unit that is smaller, lighter and more efficient than many other linear supplies. The LAB-S range features a standby function so that the voltage and current output can be preset and then instantaneously applied. All units are fitted with thermal overload protection and adjustable over voltage protection. Sense terminals are provided to counter voltage losses in the output cables.

Computer interfaces can be optionally fitted to your chosen unit. USB, IEEE 488.2 and RS232 or RS485 capability is offered with both listener and talker functions. Isolated or normal analogue interfaces with 2 voltage ranges are also offered. The choice of interfaces combined with the /ATE option (no front panel control or display) ensures that this range is ideal for system integration. The design of this series of DC Sources allows non-standard output voltages, currents and powers to be accommodated for. On request units can be built up to 250A, 500V at a maximum of 12kW.



- Optional Computer and Analogue Interfaces
- Voltage and current can be preset and read
- Very low ripple and fast response times
- Constant voltage and current operation
- Output galvanically isolated from input
- Standard Range up to 4.5kW
- Floating Outputs

Technical Data

Insulation.....	3700VAC, 425 VDC
Input voltage.....	230VAC \pm 10% 50/60Hz (<1500W), 3 x 400VAC 50/60Hz (>2kW)
Voltage Regulation.....	0.05%
Current Regulation.....	0.1%
Ripple.....	0.01% + 4mVrms
Programming Accuracy.....	< \pm 0.5%
Sense (Remote).....	1.0V
Display.....	3.5 Digits for V and I
Protection.....	OC/OV/OT/OP
Response Time.....	Typically <100 μ S
Operating Temperature.....	0°C - 50°C
Operating Humidity.....	0 - 90% (non condensing)
Operating Modes.....	Constant voltage and constant current
Analogue Interface Option.....	0 - 5VDC or 0 - 10VDC
Power Derating (50-70°C).....	-2%/°C

Selection and Options Table Overleaf

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



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LAB-S DC Linear Laboratory Power Supplies

Selection Table

Part Number	Power	Voltage	Current	Height
LAB-S 05-35	500W	35 VDC	14 A	19" x 4U x 434mm
LAB-S 05-70	500W	70 VDC	7 A	19" x 4U x 434mm
LAB-S 05-150	500W	150 VDC	3 A	19" x 4U x 434mm
LAB-S 07-35	750W	35 VDC	21 A	19" x 4U x 434mm
LAB-S 07-70	750W	70 VDC	10 A	19" x 4U x 434mm
LAB-S 07-150	750W	150 VDC	5 A	19" x 4U x 434mm
LAB-S 10-35	1000W	35 VDC	28 A	19" x 4U x 434mm
LAB-S 10-70	1000W	70 VDC	14 A	19" x 4U x 434mm
LAB-S 10-150	1000W	150 VDC	6 A	19" x 4U x 434mm
LAB-S 15-35	1500W	35 VDC	42 A	19" x 4U x 434mm
LAB-S 15-70	1500W	70 VDC	20 A	19" x 4U x 434mm
LAB-S 15-150	1500W	150 VDC	10 A	19" x 4U x 434mm
LAB-S 20-35	2000W	35 VDC	56 A	19" x 6U x 434mm
LAB-S 20-70	2000W	70 VDC	28 A	19" x 6U x 434mm
LAB-S 20-150	2000W	150 VDC	12 A	19" x 6U x 434mm
LAB-S 25-35	2500W	35 VDC	71 A	19" x 6U x 434mm
LAB-S 25-70	2500W	70 VDC	35 A	19" x 6U x 434mm
LAB-S 25-150	2500W	150 VDC	16 A	19" x 6U x 434mm
LAB-S 30-35	3000W	35 VDC	85 A	19" x 6U x 434mm
LAB-S 30-70	3000W	70 VDC	42 A	19" x 6U x 434mm
LAB-S 30-150	3000W	150 VDC	20 A	19" x 6U x 434mm
LAB-S 35-35	3500W	35 VDC	100A	19" x 6U x 434mm
LAB-S 35-70	3500W	70 VDC	50 A	19" x 6U x 434mm
LAB-S 35-150	3500W	150 VDC	23 A	19" x 6U x 434mm
LAB-S 40-70	4000W	70 VDC	57 A	19" x 10U x 434mm
LAB-S 40-150	4000W	150 VDC	26 A	19" x 10U x 434mm
LAB-S 45-70	4500W	70 VDC	64 A	19" x 10U x 434mm
LAB-S 45-150	4500W	150 VDC	30 A	19" x 10U x 434mm

Options Table

Code	Description
/ATE.....	No front panel control or display. Analogue Interface provided as standard
/AI-5.....	0-5V Analogue Interface for all control and measurement functions
/AI-10.....	0-10V Analogue Interface for all control and measurement functions
/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
/LT.....	IEEE 488.2 Interface with listener and talker functions
/LTRS232.....	RS232 Interface with listener and talker functions
/LTRS485.....	RS485 Interface with listener and talker functions
/LT+LTRS232.....	IEEE 488.2 and RS232 Interfaces with listener and talker functionality
/LT+LTRS485.....	IEEE 488.2 and RS485 Interfaces with listener and talker functionality
/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
/3P.....	3 Phase Input (standard for 2kW and above)
/10POT.....	Potentiometer with scale

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. Please note that your actual unit may differ from those shown.