LAB/SL Laboratory DC power supplies with electronic load

120 – 240 W

OVERVIEW

- Two quadrants operation source and load
- Linear controlled, without thyristor preregulation (very low ripple)
- Extremely fast setting change (approx. 250 µs)
- Constant voltage/current, presettable and readable
- Digital display show all system parameter
- Analogue interface 0-5 (10) VDC to set and read out
- Available also as ATE Version
- Interface IEEE 488 and RS232,485, 12 bit
- Special versions on request

TYPES

Type	Power W	Output/Source	Load	Current A	Dimensions
LAB/SL 8	120	0 – 8	1 – 8	0 – 15	112 x 222 x 360 mm
LAB/SL 15	120	0 – 15	1 – 15	0 – 8	112 x 222 x 360 mm
LAB/SL 30	120	0 – 30	1 – 30	0 – 4	112 x 222 x 360 mm
LAB/SL 60	120	0 – 60	1 – 60	0 – 2	112 x 222 x 360 mm
LAB/SL 120	120	0 – 120	1 – 120	0 – 1	112 x 222 x 360 mm
LAB/SL 28	240	0 – 8	1 – 8	0 – 30	224 x 222 x 360 mm
LAB/SL 215	240	0 – 15	1 – 15	0 – 16	224 x 222 x 360 mm
LAB/SL 230	240	0 – 30	1 – 30	0 – 8	224 x 222 x 360 mm
LAB/SL 260	240	0 – 60	1 – 60	0 – 4	224 x 222 x 360 mm
LAB/SL 2.120	240	0 – 120	1 – 120	0 – 2	224 x 222 x 360 mm

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OPTIONS

Suffix	Description
/ATE	Without display and manual operation
/AI5	Analogue interface 0 - 5 VDC
/AI10	Analogue interface 0 - 10 VDC
/ATI5	Analogue interface galvanic isolated 0 - 5 VDC
/ATI10	Analogue interface galvanic isolated 0 - 10VDC
LT	IEEE 488 interface, listener and talker
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
/6U	21 HP x 6 U Eurocassette
/TG	Handle
/10POT	Potentiometer with scale
/AF	Adjustable Foot
/ECT	19" x 6 U Unit trace
/ECS6	19" x 6 U rack for 4 euro cassettes

TECHNICAL DATAS

Input voltage, switchable	115/230 VAC ± 10%
Isolation	3.700 VAC; 4.250 VDC
Line regulation (± 10 %) CV	0,0125 %
Line regulation (± 10 %) CC	0,02 %
Load regulation (10 - 90 %) CV	0,0125 %
Load regulation (10 - 90 %) CC	0,02 %
Programming accuracy	< ± 0,5 %
Offset	< ± 4,0 mV
Ripple (V_{pp}) CV	< 4,0 mV
Ripple (V_{rms}) CC	< 4,0 mA (< 8,0 mA LAB/SL 8)
Temperature coefficient	25 ppm/°C
Transient response time	< 100 µs
Response time	< 500 µs (typ. < 250 µs)
Sense (V/line)	1,0 V (2,0 V LAB/SL 8)
Display	3.5 digits for U and C
Protection	OC / OV / OT / OP
Interface analogue	0 - 5(10)V see options
Interface analogue isolated	0 - 5(10)V see options
Interface RS 232	see options 12 Bit
Interface RS 485	see options 12 Bit
Interface IEEE 488	see options 12 Bit
Operating temperature	0 - 50°C
Operating Humidity	30 - 90 % (no dewdrop)
Power derating 50 - 70°C	-2 % / °C
Cooling 120/240 W	Force air front to back
Storage temperature	-45 to +85°C
Storage humidity	10 - 95 % (no dewdrop)

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