

LAB/SMS DC Sources 3 - 10 kW



Picture shows a 10 kW Version

OVERVIEW

- Efficiency up to 94%
- Compact design 10 kW in 2 U
- Active parallel mode
- User comfort via front panel operation
- CC, CV, CR and CP mode standard
- Storable space for freely programmable U/I Curves, playable over an external SD card
- Storable U/I curves (e.g. for PV-Simulation and sequential control)
- UI, UIP, UIR mode, simulation of PV graphs
- Script control: graph and process programming, booting from memory card
- Creation of user-defined output graphs via memory card or digital interface
- Data log function: current operating values are saved to the memory card within an adjustable interval
- Graphic Display
- Analogue Interface 5/10 VDC to set and read out, (option)
- Digital interfaces IEEE 488, RS232/485, USB and LAN (option)
- Galvanic isolated analog interface: 0..5 V or 0..10 V (user selectable, option)
- Line i/p available for world wide using
- Script control combined with the data log function enables the build-up of an independent „stand alone“ testing position
- User adjustable values for Umax and Imax enables limitation of output voltage/output current
- Special versions on request

TYPES

Type	Power W	Voltage V	Current A	Dimensions
LAB/SMS 315	3.000	0 - 15	0 - 200	19" x 2HE x 440mm
LAB/SMS 335	3.000	0 - 35	0 - 90	19" x 2HE x 440mm
LAB/SMS 345	3.000	0 - 45	0 - 70	19" x 2HE x 440mm
LAB/SMS 370	3.000	0 - 70	0 - 45	19" x 2HE x 440mm
LAB/SMS 3150	3.000	0 - 150	0 - 20	19" x 2HE x 440mm
LAB/SMS 3300	3.000	0 - 300	0 - 10	19" x 2HE x 440mm
LAB/SMS 3600	3.000	0 - 600	0 - 5	19" x 2HE x 440mm
LAB/SMS 31000	3.000	0 - 1000	0 - 3	19" x 2HE x 440mm
LAB/SMS 31200	3.000	0 - 1200	0 - 2,6	19" x 2HE x 440mm
LAB/SMS 420	4.000	0 - 20	0 - 200	19" x 2HE x 440mm
LAB/SMS 435	4.000	0 - 35	0 - 115	19" x 2HE x 440mm
LAB/SMS 445	4.000	0 - 45	0 - 90	19" x 2HE x 440mm
LAB/SMS 470	4.000	0 - 70	0 - 60	19" x 2HE x 440mm
LAB/SMS 4150	4.000	0 - 150	0 - 30	19" x 2HE x 440mm
LAB/SMS 4300	4.000	0 - 300	0 - 15	19" x 2HE x 440mm
LAB/SMS 4600	4.000	0 - 600	0 - 7	19" x 2HE x 440mm
LAB/SMS 41000	4.000	0 - 1000	0 - 4	19" x 2HE x 440mm

Type	Power W	Voltage V	Current A	Dimensions
LAB/SMS 525	5.000	0 - 25	0 - 200	19" x 2HE x 440mm
LAB/SMS 535	5.000	0 - 35	0 - 150	19" x 2HE x 440mm
LAB/SMS 545	5.000	0 - 45	0 - 120	19" x 2HE x 440mm
LAB/SMS 570	5.000	0 - 70	0 - 75	19" x 2HE x 440mm
LAB/SMS 5150	5.000	0 - 150	0 - 35	19" x 2HE x 440mm
LAB/SMS 5300	5.000	0 - 300	0 - 17	19" x 2HE x 440mm
LAB/SMS 5600	5.000	0 - 600	0 - 8,5	19" x 2HE x 440mm
LAB/SMS 51000	5.000	0 - 1000	0 - 5	19" x 2HE x 440mm
LAB/SMS 51200	5.000	0 - 1200	0 - 4,2	19" x 2HE x 440mm
LAB/SMS 615	6.000	0 - 15	0 - 400	19" x 2HE x 600mm
LAB/SMS 620	6.000	0 - 20	0 - 300	19" x 2HE x 600mm
LAB/SMS 635	6.000	0 - 35	0 - 175	19" x 2HE x 600mm
LAB/SMS 645	6.000	0 - 45	0 - 140	19" x 2HE x 600mm
LAB/SMS 670	6.000	0 - 70	0 - 90	19" x 2HE x 600mm
LAB/SMS 6150	6.000	0 - 150	0 - 40	19" x 2HE x 600mm
LAB/SMS 6300	6.000	0 - 300	0 - 20	19" x 2HE x 600mm
LAB/SMS 6600	6.000	0 - 600	0 - 10	19" x 2HE x 600mm
LAB/SMS 61000	6.000	0 - 1000	0 - 6	19" x 2HE x 600mm
LAB/SMS 61200	6.000	0 - 1200	0 - 5	19" x 2HE x 600mm
LAB/SMS 820	8.000	0 - 20	0 - 440	19" x 2HE x 600mm
LAB/SMS 825	8.000	0 - 25	0 - 320	19" x 2HE x 600mm
LAB/SMS 835	8.000	0 - 35	0 - 230	19" x 2HE x 600mm
LAB/SMS 845	8.000	0 - 45	0 - 180	19" x 2HE x 600mm
LAB/SMS 870	8.000	0 - 70	0 - 115	19" x 2HE x 600mm
LAB/SMS 8150	8.000	0 - 150	0 - 55	19" x 2HE x 600mm
LAB/SMS 8300	8.000	0 - 300	0 - 30	19" x 2HE x 600mm
LAB/SMS 8600	8.000	0 - 600	0 - 15	19" x 2HE x 600mm
LAB/SMS 81000	8.000	0 - 1000	0 - 8	19" x 2HE x 600mm
LAB/SMS 81200	8.000	0 - 1200	0 - 6,7	19" x 2HE x 600mm
LAB/SMS1020	10.000	0 - 20	0 - 500	19" x 2HE x 600mm
LAB/SMS1035	10.000	0 - 35	0 - 350	19" x 2HE x 600mm
LAB/SMS1045	10.000	0 - 45	0 - 250	19" x 2HE x 600mm
LAB/SMS1070	10.000	0 - 70	0 - 175	19" x 2HE x 600mm
LAB/SMS10150	10.000	0 - 150	0 - 75	19" x 2HE x 600mm
LAB/SMS10300	10.000	0 - 300	0 - 40	19" x 2HE x 600mm
LAB/SMS10600	10.000	0 - 600	0 - 17	19" x 2HE x 600mm
LAB/SMS101000	10.000	0 - 1000	0 - 10	19" x 2HE x 600mm
LAB/SMS101200	10.000	0 - 1200	0 - 8,4	19" x 2HE x 600mm

OPTIONS

Suffix	Description
./3P208	i/p 3 x 208 / 187 - 229VAC
./3P400	i/p 3 x 400 / 360 - 440VAC
./3P480	i/p 3 x 480 / 432 - 528VAC
./ATE	Only ATE mode, no frontpanel
./ATI5/10	Isolated analogue interface 0-5/0-10VDC set and monitor
./LT	Interface IEEE 488, GPIB
./LTRS485	Interface RS 485
./LTRS232	Interface RS 232
./LAN	Interface LAN
./USB	Interface USB
./KFZ12	car starting curve 12VDC
./KFZ24	car starting curve 24VDC
./OPT	Output characteristics
./SD	SD card slot
./M-S	Master-Slave Option for max. 90 kW power

TECHNICAL DATAS

Input Voltage Specification

Voltage Range	230 VAC/3x208 VAC/3x400VAC/3x480VAC +/-10%
Frequency	47 - 63 Hz

EMC and Safety Standards

IT Equipment - Safety	EN 60950
Emission standard for industrial environments	EN 61000-6-4
Immunity for industrial environments	EN 61000-6-2

Programming & Controls

Static Voltage Regulation	+/- 0.05% + 2mV
Static Current Regulation	+/- 0.1% + 2mA
Dynamic Load Regulation	< 2ms (typ.)
Ripple	< 0.2% (typ.)
Stability	+/-0.05%
Programming Accuracy (Vout)	+/- 0.05% +2mV
Isolation	3000 V
Over Voltage Protection	0 - 120% Vmax
Circuit Protection	OC/OV/OT/OP
Line Regulation	< +/- 0.1% + 2mV
Static Load Regulation	< +/- 0.1% + 2mV

Output Specifications

Output Control & Monitoring	Front panel and/or optional Analog 0 to +5V/+10V Standard & isolated / Digital 12 bit: RS232, RS485, IEE-488, LAN, USB, SD card
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Environmental

Operation Temperature Range	0 - 50°C
Humidity	0 - 90% (non-condensing)
Power Reduction	50 - 70°C - 2%/°C
Storage Humidity	0 - 95% (non-condensing)
Storage Temperature Range	-45°C - 85°C
Vibration	10 - 55Hz / 1min / 2G XYZ
Shock	< 20G
Weight	3 - 5 kW 18 kg, 6 - 10 kW 25 kg