

## DC Sources HE-LAB/HP 5.000 – 120.000 W

# HEIDEN

COMPETENCE IN POWER



 19" x 3 HE x 620 mm

### OVERVIEW

- Efficiency up to 94 %
- Compact Design
- Active and Parallel connectable
- Easiest operation via front panel
- Constant Current, Voltage, Resistance and Power Operation
- Randomly programmable Memory Locations for U/I waves
- UI, UIP, UIR Mode, Simulation of PV-Arrays
- Script Control: process programming and booting from memory card
- Creating user defined output characteristics via memory card or digital interface
- Digital Interfaces IEEE 488, RS232/485, USB and LAN (optional)
- Galvanically isolated Analogue Interface 0 – 5 V or 0 – 10 V (user selectable; optional)
- Storable U/I wave forms (e.g. for PV simulation and sequential control)
- Graphical Display
- Special version on request
- Datalog function: operation values can be saved in an adjustable interval to a memory card
- Script operation in combination with Datalog function allows an independent stand-alone test field setup
- Umax and Imax randomly selectable to limit maximum output voltage and current

### PRODUCT EXAMPLES

Type	Power W	Voltage V	Current A	Dimensions
HE-LAB/HP 520	5.000	0 – 20	0 – 250	19" x 3 HE x 620 mm
HE-LAB/HP 540	5.000	0 – 40	0 – 125	19" x 3 HE x 620 mm
HE-LAB/HP 580	5.000	0 – 80	0 – 65	19" x 3 HE x 620 mm
HE-LAB/HP 5100	5.000	0 – 100	0 – 50	19" x 3 HE x 620 mm
HE-LAB/HP 5150	5.000	0 – 150	0 – 35	19" x 3 HE x 620 mm
HE-LAB/HP 5300	5.000	0 – 300	0 – 17	19" x 3 HE x 620 mm
HE-LAB/HP 5600	5.000	0 – 600	0 – 8,5	19" x 3 HE x 620 mm
HE-LAB/HP 51000	5.000	0 – 1.000	0 – 5	19" x 3 HE x 620 mm
HE-LAB/HP 51200	5.000	0 – 1.200	0 – 4	19" x 3 HE x 620 mm

Type	Power W	Voltage V	Current A	Dimensions
HE-LAB/HP 1020	10.000	0 – 20	0 – 500	19" x 3 HE x 620 mm
HE-LAB/HP 1040	10.000	0 – 40	0 – 250	19" x 3 HE x 620 mm
HE-LAB/HP 1080	10.000	0 – 80	0 – 130	19" x 3 HE x 620 mm
HE-LAB/HP 10100	10.000	0 – 100	0 – 100	19" x 3 HE x 620 mm
HE-LAB/HP 10150	10.000	0 – 150	0 – 70	19" x 3 HE x 620 mm
HE-LAB/HP 10300	10.000	0 – 300	0 – 34	19" x 3 HE x 620 mm
HE-LAB/HP 10600	10.000	0 – 600	0 – 17	19" x 3 HE x 620 mm
HE-LAB/HP101000	10.000	0 – 1.000	0 – 10	19" x 3 HE x 620 mm
HE-LAB/HP101200	10.000	0 – 1.200	0 – 8	19" x 3 HE x 620 mm
HE-LAB/HP 1520	15.000	0 – 20	0 – 750	19" x 3 HE x 620 mm
HE-LAB/HP 1540	15.000	0 – 40	0 – 375	19" x 3 HE x 620 mm
HE-LAB/HP 1580	15.000	0 – 80	0 – 195	19" x 3 HE x 620 mm
HE-LAB/HP 15100	15.000	0 – 100	0 – 150	19" x 3 HE x 620 mm
HE-LAB/HP 15150	15.000	0 – 150	0 – 100	19" x 3 HE x 620 mm
HE-LAB/HP 15300	15.000	0 – 300	0 – 50	19" x 3 HE x 620 mm
HE-LAB/HP 15600	15.000	0 – 600	0 – 25	19" x 3 HE x 620 mm
HE-LAB/HP 151000	15.000	0 – 1.000	0 – 15	19" x 3 HE x 620 mm
HE-LAB/HP 151200	15.000	0 – 1.200	0 – 12	19" x 3 HE x 620 mm

Other versions on request

## OPTIONS

Appendix	Description
../230	230 / 207 – 253 VAC Input
../3P208	3 x 208 / 187 – 229 VAC Input
../3P400	3 x 400 / 360 – 440 VAC Input
../3P440	3 x 440 / 396 – 484 VAC Input
../3P480	3 x 480 / 432 – 528 VAC Input
../400Hz	400 Hz Input
../DC	250...750 VDC Input
../ATE	Without Manual Operation
../ATI5/10	Galvanically isolated Analogue Interface 0 – 5 VDC / 0 – 10 VDC
../LT IEEE	488 Interface
../LTRS485	RS 485 Interface
../LTRS232	RS 232 Interface
../LAN	LAN Interface
../USB	USB Interface
../KFZ12	Preselected Start-up Curve 12 V
../KFZ24	Preselected Start-up Curve 24 V
../OPT	Predefined Output characteristic
../SD	SD Card Slot
../M-S	Master/Slave Option for power up to 120 kW

## TECHNICAL DATAS

### Input Voltage Specification

Input voltage range	230 VAC / 3 x 208 VAC / 3 x 400 VAC / 3 x 480 VAC $\pm$ 10%
Input frequency	47 – 63 Hz

### EMC and Safety Standards

Safety standard	EN 60950
Emission	EN 61000-6-4:2007
Immunity	EN 61000-6-2:2005
Measurement, control- and laboratory equipment	EN 61010-1:2006

### Output Specifications

Static Voltage Regulation	$\pm$ 0.05 % + 2 mV
Static Current Regulation	$\pm$ 0.1 % + 2 mA
Dynamic Load Regulation	< 2 ms (typ.)
Ripple	< 0.2 % (typ.)
Stability	$\pm$ 0.05 %
Programming Accuracy (Vout)	$\pm$ 0.05 % + 2 mV
Isolation	3.000 V
Over Voltage Protection	0 – 120 % Vmax
Circuit Protection	OC / OV / OT / OP
Line Regulation	< $\pm$ 0.1 % + 2 mV
Static Load Regulation	< $\pm$ 0.1 % + 2 mV

### Programming & Controls

Output Control & Monitoring	Front panel and/or optional Analog 0 – +5 V/+10 V isolated / Digital 12 bit: RS232, RS485, IEEE488, LAN, USB, SD card
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### Ambient Conditions

Cooling	Fans
Operating temperature	0 – 50°C
Storage temperature	-20 – 70°C
Humidity	< 80%
Operating height	< 2.000 m
Vibration	10 – 55 Hz / 1 min / 2G XYZ
Shock	< 20 G
Weight	1,2 kW 7 kg   2 kW 7,6 kg

**HEIDEN power GmbH**  
Am Wiesengrund 1  
86932 Pürgen  
Germany

Tel.: +49-8196-9988-0  
Fax: +49-8196-998877  
info@heidenpower.com  
www.heidenpower.com