OPTIONS

Overview of available options

For the various Heinzinger power supplies, many options are available. These options enable the adaptation of standard power supplies to the requirements of a wide range of applications. Below is a description of the commonly used options. Beyond these, customer specific features and variations are available on request.

Option	Description
01	All outputs and analog interface (if available) on the rear side.
02	Interlock connection for integration of system control into external power off loops. Output power off via NC contact (default condition is contact closed, = power ON). Also available in combination with option 52 (fast power down).
04	4.5 digit digital displays instead of 3.5 digits for voltage and current
10	DC isolation of the analog interface (4 channels), isolation up to 2 kV DC, for voltage and current reference values & the assignment of the set-point as well as output ON/OFF.
22	Coarse/fine setup control and coarse/fine assignment of set point via additional 10-turn potentiometer, separately for voltage and current. Standard ratio coarse/fine = 99 % / 1 %.
40	Battery characteristics, source resistance setting by means of an additional 10-turn potentiometer. Specify required R_i range when ordering. (On request setup with digit switch instead of 10-turn potentiometer or via interface).
41	Power control through additional 10-turn potentiometer (option: via interface) and additional output power display (3½digit). In conjunction with this option, all outputs are provided on the rear side. Only available for low-voltage power supplies.
46	Ramp Control of voltage regulation (current regulation optionally). Enables a defined start-up and shut-down of the power supply, independent of the selected control mode (manual operation, presettings via interface). With this additional control function, a precisely defined upward or downward adjustment of the power supply is possible, thus protecting the connected load against faulty operation. The slope of the ramp can be set; the ramp function is activated or deactivated by a switch. The status is indicated by a LED lamp.
52	Rapid discharge circuit for fast shut down within <1 sec below <1 % after output voltage is cut via switch or interface.
56	ARC detection via du/dt detector for indication of high voltage flash over at the output. If a high voltage flash occurs, the power supply is turned off. This status is indicated with the ‚ARC Detection' LED at the front panel (also if shutdown is deactivated). On/Off changeable via front panel switch.
57	Limit setting for voltage and current, for setting voltage and current limits via 10-turn potentiometer.

Option	Description
60/10	Mechanical polarity reversion for inversion of output voltage positive / negative via switch on the front panel, for PNC units up to 10 kV.
60/40	Mechanical polarity reversion for inversion of output voltage positive / negative via switch on the front panel, for PNC units up to 40 kV.
60/60	Mechanical polarity reversion for inversion of output voltage positive/negative via reversion on rear side, with polarity indication in the front For PNC units up to 60 kV
61	Electrical polarity reversion, designed for the nominal voltage of the power supply up to a maximum of 60 kV.
72	Digital 12bit interface, following options are available: Option 72 USB - digital interface Option 72 I - digital interface, RS232/RS485 Option 72 II - digital interface, RS232/IEEE488 Option 72 - ethernet digital interface Option 72 - digital interface, RS232 mit LWL
76	Digital 16bit interface, following options are available: Option 76 USB - digital interface Option 76 II - digital interface, RS232/IEEE488 Option 76 - ethernet digital interface Option 76 - digital interface, RS232 mit LWL
95	The Calibration Certificate lists the exact power supply calibration data at the time of delivery. This document serves as proof of factory calibration based on the national German calibration standard. Calibration is possible on a regular basis for all Heinzinger power supplies within the context of a calibration and service contract or can be conducted as a service at varying time intervals.

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Heinzinger electronic GmbH
Anton-Jakob-Str. 4
83026 Rosenheim
Germany
+49 (0) 8031 2458 0
info@heinzinger.de
www.heinzinger.com