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Power Supplies for Electrophoresis EV Series

Description

This instrument is manufactured with the latest technology and needs no particular maintenance. The complete EV series can keep it´s voltage constant at low currents without problem and will keep on functioning at low and high temperatures. Each model has constant voltage, current, power and time for a routine electrophoresis run. In Simple Mode you just have to set your power supply to the desired parameters and press run.

Choice of power supplies EV series

Features

Method programming
Up to 9 different programs, each with 9 steps, of frequently used parameters can be stored in the non-volatile memory for future recall. Reads voltage in 1 V steps, current in 1 mA steps and power in 1 W steps. Each step is able to recall a next one, providing a flexible multiple step function for special techniques. Parameters of the running step can be changed temporarily without interrupting the run.

Voltage ramp
The method mode also permits to program a linear voltage gradient for any step provided the limiting current or power is not attained.

Timer
Timer or volt-hour controlled operation is a useful standard feature on all models. The microcomputer will automatically terminate the run when the count down of the selected value is achieved.

Automatic cross-over
Each model has constant voltage, constant current, constant power capabilities with automatic cross-over and shows which parameter is kept constant.

Automatic recovery after power failure
In case of a mains drop out the instrument will automatically continue the run for the remaining time.

Data-logging
Stores periodically up to 3600 output values (voltage, current and power, time or volthours) including program number and step.

Data transfer
A free data acquisition software for PC is available optionally. Download software (attention: .NET Framework 1.1 is required!). It permits to visualise and examine the stored run details.

Remote control
All power supplies can be controlled by a computer using special commands.

Safety features
The user is protected from potential shock hazard since the AC line is automatically disconnected from the high voltage transformer when a ground leakage path is detected. The instrument is fully protected against any overload condition including accidental short circuit of the output. The high voltage cannot suddenly appear at the outputs. It will always increase smoothly up to one of the pre-set limits is reached. Galvanic RS232 input/ output insulation prevents dangerous ground loop interferences when connected to a computer. (Model EV222 has no method programming, data-logging or remote control possibility).

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Models

Model	Voltage 0 up to ...	Power 0 up to ...	Current 0 up to ...	Number of sockets	Min. resistance	Dimensions (W x D x H)	Weigth	Order No.
EV 2310	300 V	150 W	1000 mA	4 x 4 mm	10 Ω	24 x 20 x 13 cm	6 kg	101.1053
EV 2650	600 V	150 W	500 mA	4 x 4 mm	30 Ω	24 x 20 x 13 cm	6 kg	101.1055
EV 2230	1500 V	150 W	300 mA	4 x 4 mm	300 Ω	24 x 20 x 13 cm	6 kg	101.1052
EV 2320	3000 V	150 W	150 mA	4 x 4 mm	600 Ω	24 x 20 x 13 cm	6 kg	101.1054
EV 3020	300 V	300 W	2000 mA	4 x 4 mm	5 Ω	31 x 26 x 13 cm	10 kg	101.1056
EV 3610	600 V	300 W	500 mA	4 x 4 mm	15 Ω	31 x 26 x 13 cm	10 kg	101.1059
EV 3150	1200 V	300 W	500 mA	4 x 4 mm	70 Ω	31 x 26 x 13 cm	10 kg	101.1057
EV 3330	3000 V	300 W	300 mA	4 x 4 mm	600 Ω	31 x 26 x 13 cm	10 kg	101.1058
EV 3620	6000 V	300 W	150 mA	4 x 2 mm	1200 Ω	31 x 26 x 13 cm	10 kg	101.1060

Accessories

Model	Description	Order No.
E 200	Pair of adaptors, 4 mm plug to 2 mm socket	101.1014
E 201	Pair of cables M/F, 4+4 mm	101.1015
E 204	Pair of adaptors, 2 mm plug to 4 mm socket	101.1016

Applications

Models	EV2310	EV2650	EV2320	EV3020	EV3610	EV3150	EV3330	EV3620
DNA sequencing							✔	✔
Flat-bed isoelectric focusing						✔	✔	✔
Horizontal gels	✔	✔	✔	✔	✔	✔	✔	✔
Long vertical gels								✔
Vertical gels	✔	✔	✔	✔	✔	✔	✔	
Electro-elution		✔	✔		✔	✔		
Western Blotting				✔				
Semi-dry Blotting				✔				
Mini Western Blotting	✔							
Mini semi-dry blotting	✔							