Power	**150 W**
Voltage	**300 V to 3000V (4 versions)**
Current	**150 mA to 1000mA (4 versions)**
Outputs	**4**
Operating Modes	**4** Simple Mode 9x9 Method Programming Mode Voltage Ramp mode Timer Mode (time or Vh)
USB interface	
Datalogging	
Real Time Clock	
Mutiple safety features	
Made in Belgium	

Description

EV2000 series is a high-end mid-power range suitable for most applications such as larger tanks or multiple smaller tanks. A robust 150W power supply in a small housing and designed to be easy to use.

The EV2000 series contains 4 different version:
EV2310 (300V, 1000mA): an excellent choice for blotting, multiple horizontal and vertical gels.
EV2650 (600V, 500mA): our most popular all round power supply suitable for most tanks and applications
EV2230 (1500V, 300mA): suitable for higher voltage applications with a need for higher currents
EV2320 (3000V, 150mA): a high voltage power supply in a small form factor suitable for most high voltage applications

The front panel and graphical display are designed for ease of use. The display provides all useful information during runs and will show an on screen help to guide the user in setting up the power supply. In Simple Mode you just have to set your power supply to the desired parameters and press run.

EV2000 series has a firmware upgrade capability so future improvements and features will always be available.

Moreover EV2000 series has a continuous logging combined with a real time clock so it's possible to get an overview of previous runs, including possible down-times in case of mains power failures.

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.

Consort Power Supplies are the most robust, long lasting and durable electrophoresis power supplies in the market.

Features

On screen help in 4 languages to assist setting up the power supply parameters and solve errors.

Firmware updates allows for upgrades to the latest version via the USB interface. Feature requests can also be implemented via the firmware system.

Real Time Clock date and time are kept in a battery backup system and is used logging an electrophoresis run.

Various running modes:
Simple Mode: just set voltage, current, power and time for a routine electrophoresis run.
9x9 Method Programming Mode: Up to 9 different programs, each with 9 steps, can be stored in the non-volatile memory.
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 Mode: a linear voltage gradient for any step provided the limiting current or power is not attained.
Timer Mode: Timer or volt-hour controlled operation will automatically stop the run and sound an alarm.

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

Password protection

Data-logging Data logging of about 100 hours of runs are automatically stored. Data includes data/time, voltage, current, power and date/time of following events: start, stop, pause, program number, step, changes, mains failure and auto restart.

Data Transfer Free data acquisition software for PC can be downloaded from our website. It allows to visualize and examine the stored run details.

Remote control EV2000 series can be controlled by a computer using special commands. These commands can be found in the support section of our website.

Safety features:
Ground leakage detection: protection from potential shock hazard when a ground leakage path is detected.
Overload protection: full protection against any overload condition including accidental short circuit of the output.
Smooth voltage rise: high voltage cannot suddenly appear at the outputs but will increase smoothly up to the pre-set limits.
No load detection: prevents errors such as a bad or a dangling connection.
Isolated communication: Optically isolated USB input/output connection to prevent any high voltage on the communication lines.

Specifications

	EV2310	EV2650	EV2230	EV2320
VOLTAGE	0...300 V	0...600 V	0...1500 V	0...3000 V
CURRENT	0...1000 mA	0...500 mA	0...300 mA	0...150 mA
POWER	0...150 W	0...150 W	0...150 W	0...150 W
PARAMETER RANGE	1...100% of full scale	1...100% of full scale	1...100% of full scale	1...100% of full scale
TIMER	0...99:59 h	0...99:59 h	0...99:59 h	0...99:59 h
VOLT-HOURS	0...99.99 kVh	0...99.99 kVh	0...99.99 kVh	0...99.99 kVh
DISPLAY	graphical	graphical	graphical	graphical
SETUP RESOLUTION	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W
MEASUREMENT RESOLUTION	1 V, 1 mA, 0.1 W	1 V, 0.1 mA, 0.1 W	1 V, 0.1 mA, 0.1 W	1 V, 1 mA, 0.1 W
PROGRAMS	9x9 set of parameters	9x9 set of parameters	9x9 set of parameters	9x9 set of parameters
OUTPUTS	4 in parallel, 4 mm sockets	4 in parallel, 4 mm sockets	4 in parallel, 4 mm sockets	4 in parallel, 4 mm sockets
MINIMUM LOAD RESISTANCE	10 Ω	30 Ω	300 Ω	600 Ω
NO LOAD DETECTION	✓	✓	✓	✓
GROUND LEAKAGE DETECTION	✓	✓	✓	✓
OVERLOAD DETECTION	✓	✓	✓	✓
COMPUTER CONTROL	✓	✓	✓	✓
PASSWORD PROTECTION	✓	✓	✓	✓
DATA-LOGGING	3600 values	3600 values	3600 values	3600 values
INTERVAL	1...60 seconds	1...60 seconds	1...60 seconds	1...60 seconds
REAL TIME CLOCK	✓	✓	✓	✓
USB INTERFACE	✓	✓	✓	✓
AMBIENT TEMPERATURE	0...40°C	0...40°C	0...40°C	0...40°C
RELATIVE HUMIDITY	0...95%, non condensing	0...95%, non condensing	0...95%, non condensing	0...95%, non condensing
POWER REQUIREMENTS	210-250 VAC, 50/60 Hz, 200 W 100-125 VAC, 50/60 Hz, 200 W	210-250 VAC, 50/60 Hz, 200 W 100-125 VAC, 50/60 Hz, 200 W	210-250 VAC, 50/60 Hz, 200 W 100-125 VAC, 50/60 Hz, 200 W	210-250 VAC, 50/60 Hz, 200 W 100-125 VAC, 50/60 Hz, 200 W
DIMENSIONS (WxDxH)	24x20x13 cm	24x20x13 cm	24x20x13 cm	24x20x13 cm
WEIGHT	6 kg	6 kg	6 kg	6 kg