

Electrophoresis Power Supplies

EV200 series

- Manual programming**
 The manual mode permits to set voltage, current, power and time for a routine electrophoresis run. Parameters can be changed temporarily without interrupting the run.
- 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 micro-computer will automatically terminate the run and sound an alarm 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**
 After a mains power failure the instrument will automatically continue the run for the remaining time.
- Data-logging**
 Stores up to 3600 output values (voltage, current and power, time or volthours) including program number and step.
- Data Transfer**
 A powerful data acquisition/control software for PC is available optionally. It permits to visualise and examine the stored run details, store and program the methods, add notes to the run, identify the unit, copy or delete programs in the unit's memory.
- Remote control**
 All power supplies can be controlled by a computer using special commands.
- Safety precautions**
 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 ground loop interferences when connected to a computer.
- Warranty**
 Three year warranty.

**ORDERING INFORMATION** *see also page 68*

E200	pair of adaptors, 4 mm plug to 2 mm socket
E201	pair of cables M/F, 4+4 mm
E203	pair of cables M/F, 2+4 mm
E204	pair of adaptors, 2 mm plug to 4 mm socket

ORDERING INFORMATION*see also page 68*

EV243	400 V / 300 mA power supply
EV231	300 V / 1000 mA power supply
EV265	600 V / 500 mA power supply
EV202	300 V / 2000 mA power supply
EV261	600 V / 1000 mA power supply
EV215	1200 V / 500 mA power supply
EV232	3000 V / 150 mA power supply
EV233	3000 V / 300 mA power supply
EV262	6000 V / 150 mA power supply
	comprises manual and mains lead (EV232, EV233 and EV262: also 4 pairs of 2/4 mm adaptors E200)
A2003	DIS-3 data acquisition/control software and RS232 cable
	→ Add a \$-sign for 115 VAC versions, e.g.: EV233\$

Specifications	EV243	EV231	EV265
VOLTAGE	0...400 V	0...300 V	0...600 V
CURRENT	0...300 mA	0...1000 mA	0...500 mA
POWER	0...50 W	0...150 W	0...150 W
PARAMETER RANGE	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
VOLT-HOURS	0...99.99 kWh	0...99.99 kWh	0...99.99 kWh
DISPLAY	LCD, 2x16 characters	LCD, 2x16 characters	LCD, 2x16 characters
RESOLUTION	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W
PROGRAMS	9x9 set of parameters	9x9 set of parameters	9x9 set of parameters
OUTPUTS	3 in parallel, 4 mm sockets	4 in parallel, 4 mm sockets	4 in parallel, 4 mm sockets
MIN. LOAD RESISTANCE	30 Ω	10 Ω	30 Ω
NO LOAD DETECTION	on/off, programmable	on/off, programmable	on/off, programmable
GROUND LEAKAGE DETECTION	✓	✓	✓
OVERLOAD DETECTION	✓	✓	✓
COMPUTER CONTROL	✓	✓	✓
DATA-LOGGING	3600 values	3600 values	3600 values
RS232	9600 b/s	9600 b/s	9600 b/s
AMBIENT TEMPERATURE	0...40°C	0...40°C	0...40°C
RELATIVE HUMIDITY	0...95%, non condensing	0...95%, non condensing	0...95%, non condensing
POWER REQUIREMENTS	210...250 VAC, 50/60 Hz	210...250 VAC, 50/60 Hz	210...250 VAC, 50/60 Hz
DIMENSIONS (WxDxH)	24x20x13 cm	31x26x15 cm	31x26x15 cm
WEIGHT	3 kg	6 kg	6 kg

Specifications	EV202	EV261	EV215
VOLTAGE	0...300 V	0...600 V	0...1200 V
CURRENT	0...2000 mA	0...1000 mA	0...500 mA
POWER	0...300 W	0...300 W	0...300 W
PARAMETER RANGE	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
VOLT-HOURS	0...99.99 kWh	0...99.99 kWh	0...99.99 kWh
DISPLAY	LCD, 2x16 characters	LCD, 2x16 characters	LCD, 2x16 characters
RESOLUTION	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W
PROGRAMS	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
MIN. LOAD RESISTANCE	5 Ω	15 Ω	70 Ω
NO LOAD DETECTION	on/off, programmable	on/off, programmable	on/off, programmable
GROUND LEAKAGE DETECTION	✓	✓	✓
OVERLOAD DETECTION	✓	✓	✓
COMPUTER CONTROL	✓	✓	✓
DATA-LOGGING	3600 values	3600 values	3600 values
RS232	9600 b/s	9600 b/s	9600 b/s
AMBIENT TEMPERATURE	0...40°C	0...40°C	0...40°C
RELATIVE HUMIDITY	0...95%, non condensing	0...95%, non condensing	0...95%, non condensing
POWER REQUIREMENTS	210...250 VAC, 50/60 Hz	210...250 VAC, 50/60 Hz	210...250 VAC, 50/60 Hz
DIMENSIONS (WxDxH)	31x26x15 cm	31x26x15 cm	31x26x15 cm
WEIGHT	10 kg	10 kg	10 kg

Specifications	EV232	EV233	EV262
VOLTAGE	0...3000 V	0...3000 V	0...6000 V
CURRENT	0...150 mA	0...300 mA	0...150 mA
POWER	0...150 W	0...300 W	0...300 W
PARAMETER RANGE	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
VOLT-HOURS	0...99.99 kWh	0...99.99 kWh	0...99.99 kWh
DISPLAY	LCD, 2x16 characters	LCD, 2x16 characters	LCD, 2x16 characters
RESOLUTION	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W	1 V, 1 mA, 1 W
PROGRAMS	9x9 set of parameters	9x9 set of parameters	9x9 set of parameters
OUTPUTS	4 in parallel, 2 mm sockets	4 in parallel, 2 mm sockets	4 in parallel, 2 mm sockets
MIN. LOAD RESISTANCE	600 Ω	300 Ω	1200 Ω
NO LOAD DETECTION	on/off, programmable	on/off, programmable	on/off, programmable
GROUND LEAKAGE DETECTION	✓	✓	✓
OVERLOAD DETECTION	✓	✓	✓
COMPUTER CONTROL	✓	✓	✓
DATA-LOGGING	3600 values	3600 values	3600 values
RS232	9600 b/s	9600 b/s	9600 b/s
AMBIENT TEMPERATURE	0...40°C	0...40°C	0...40°C
RELATIVE HUMIDITY	0...95%, non condensing	0...95%, non condensing	0...95%, non condensing
POWER REQUIREMENTS	210...250 VAC, 50/60 Hz	210...250 VAC, 50/60 Hz	210...250 VAC, 50/60 Hz
DIMENSIONS (WxDxH)	31x26x15 cm	31x26x15 cm	31x26x15 cm
WEIGHT	6 kg	10 kg	10 kg