



*Life Sciences Innovative Tools*



## Power Supply

Major Science complete series of Power Supply is provided for various electrophoresis systems and microfluidic researches.

Stability, high safety concern, advanced specification, long life time, compact size, economic choice are the distinct features of Major Science Power Supply Series.

### MS Power Supply

MP-100	Handy 100V Power Supply
Minis 150VS	Smart Minis 150V Power Supply
Minis 150VP	Pink Minis 150V Power Supply
Minis 300VS	Smart Minis 300V Power Supply
Minis 300VP	Pink Minis 300V Power Supply
MP-250V	MS 250V Power Supply
MP-300V	MS 300V Power Supply

### MS Programmable Power Supply

MP-500V	MS 500V Power Supply
MP-3AP	MS 3AP Power Supply
MP-2000P	Max-Power 2000V Power Supply

### MS Microfluidic Power Supply

MP-3500-FP	MS 3500V HV Power Supply
MP-5000-FP	MS 5000V HV Power Supply

*Life Sciences Innovative Tools*

ALYS Labware  
 Tel : +41 21 312 42 60  
 Fax : +41 21 312 42 61  
[labware@alys-technologies.com](mailto:labware@alys-technologies.com)

## Handy 100V Power Supply

Cat. No.: MP-100

### Features

- Compact size
- Power capacity : 40W, 100V
- Two constant voltages : 50V, 100V
- No Load detection
- Shrouded plugs and sockets
- Sufficient capability for Horizontal electrophoresis systems
- Economic choice
- Bundled package with MJ-105-S, MJ-105-R, and MT-108



- Max. Voltage : 100V
- Max. Watt : 40W
- Output Type : Constant Voltage
- Voltage Selection : 50V and 100V
- Safety Device : No Load detection
- Shrouded plugs and sockets
- Operating Temperature : Ambient - 40
- Unit Dimension : 60 x 40 x 120 mm (W x L x H)
- Terminator Pairs : One pair
- Construction Material : Polycarbonate (PC)
- Weight : 0.3 kg
- Rated Voltages : 100 - 120V only
- Very good value and very low cost
- Compact Size
- Bundled with electrophoresis cell, MJ-105-S/R or MT-108

### Ordering information

MP-100	Handy100V Power Supply
MJS-100P	Package of MJ-105-S and MP-100
MJR-100P	Package of MJ-105-R and MP-100
MT-100P	Package of MT-108 and MP-100

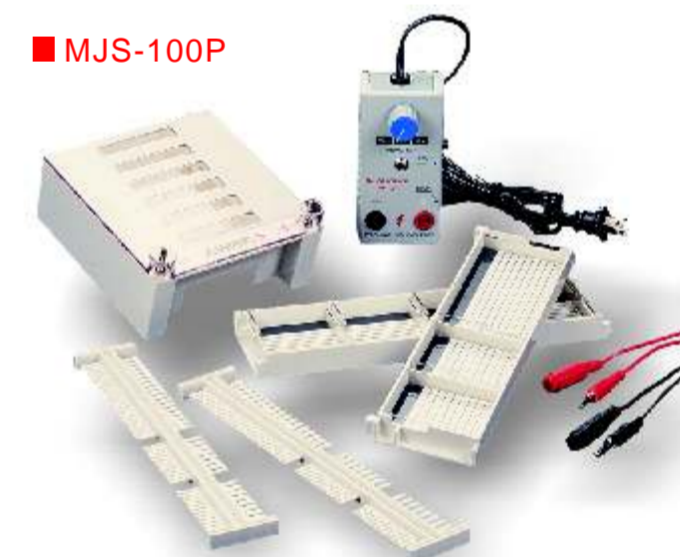
### ■ MJR-100P



### ■ MT-100P



### ■ MJS-100P



## Smart Minis 150V Power Supply

Cat. No.: Minis 150VS



**Features**

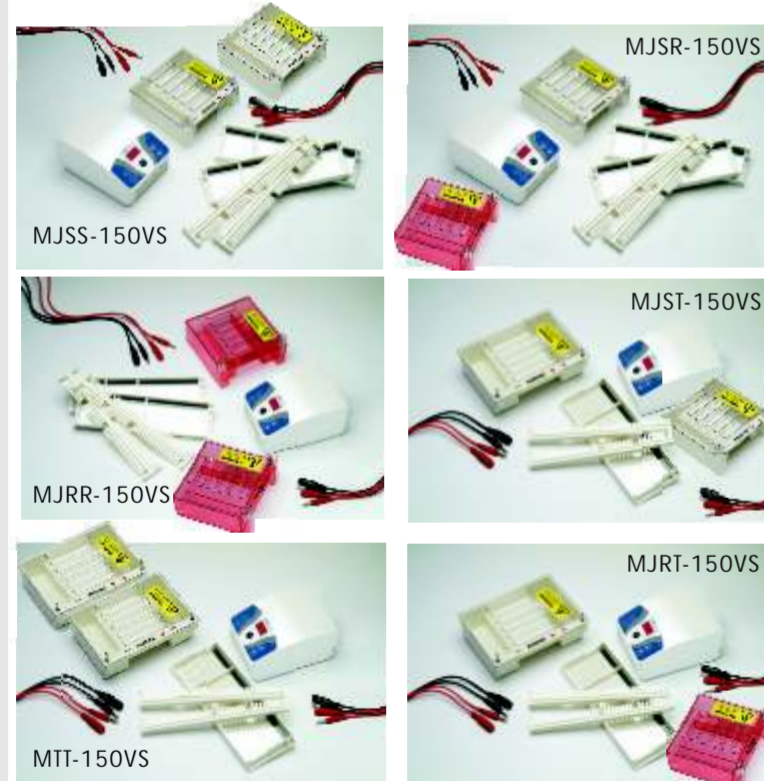
- Compact size
- Power capacity : 60W, 600mA, 150V
- 6 constant voltages : 25V, 50V, 75V, 100V, 125V, 150V
- Timer
- No Load detection
- Shrouded plugs and sockets
- Two pairs of outlet terminator
- Stability
- Economic price
- Bundled package with MJ-105-S, MJ-105-R, and MT-108

**Ordering information**

Minis 150VS Smart Minis150V Power Supply

**(ONE electrophoresis packages)**

- MJS-150VS Package of MJ-105-S and Smart Minis 150V
- MJR-150VS Package of MJ-105-R and Smart Minis 150V
- MT-150VS Package of MT-108 and Smart Minis 150V



**Ordering information (Dual electrophoresis packages)**

- MJSS-150VS Package of 2 x MJ-105-S and Smart Minis150V
- MJRR-150VS Package of 2 x MJ-105-R and Smart Minis150V
- MTT-150VS Package of 2 x MT-108 and Smart Minis150V
- MJSR-150VS Package of MJ-105-S&-R and Smart Minis150V
- MJST-150VS Package of MJ-105-S & MT-108 and Smart Minis150V
- MJRT-150VS Package of MJ-105-R & MT-108 and Smart Minis150V



## Pink Minis 150V Power Supply

Cat. No.: Minis 150VP



- Max. Voltage : 150V
- Max. Watt : 60W
- Max. Current : 600mA
- Output Type : Constant Voltage
- 6 Constant Voltages Steps : 25V, 50V, 75V, 100V, 125V, 150V
- Timer : 1~999 mins with alarm, continuous
- Safety Device : No Load detection
- Shrouded plugs and sockets
- Operating Temperature : Ambient - 40
- Unit Dimension : 115 x 150 x 80 mm (W x L x H)
- Terminator Pairs : Two pairs
- Bundled package with MJ-105-S, MJ-105-R, and MT-108

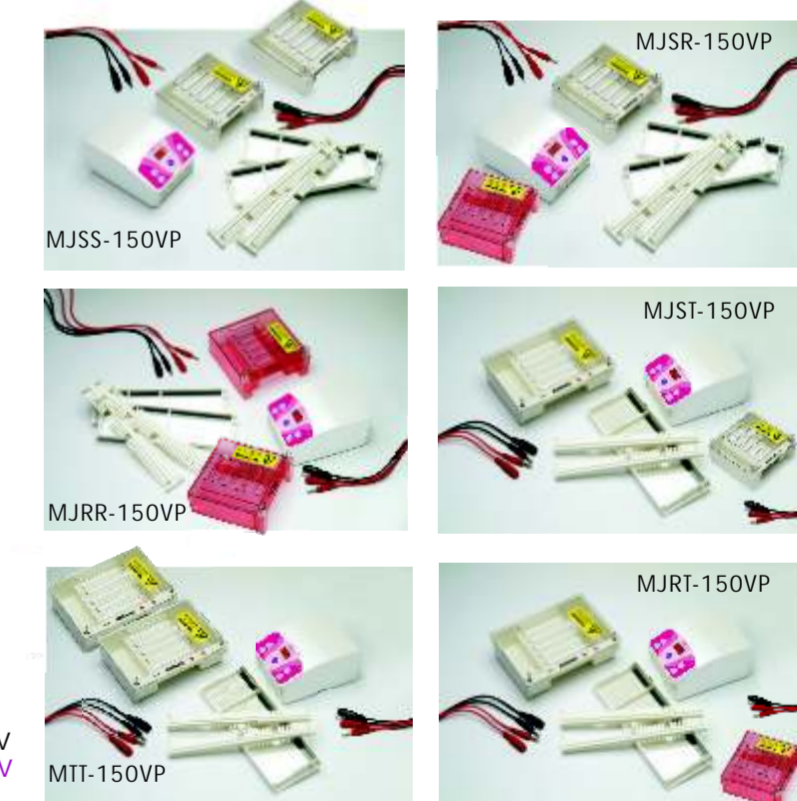
**Ordering information**

Minis 150VP Pink Minis150V Power Supply

**(ONE electrophoresis packages)**

- MJS-150VP Package of MJ-105-S and Pink Minis 150V
- MJR-150VP Package of MJ-105-R and Pink Minis 150V
- MT-150VP Package of MT-108 and Pink Minis 150V

Construction Material : ABS  
Weight : 0.6 kg  
Rated Voltages : 100 - 240V  
Compact Size



**Ordering information (Dual electrophoresis packages)**

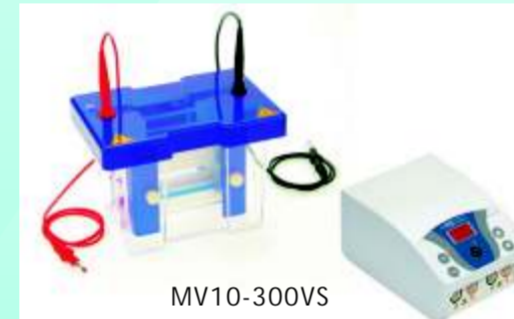
- MJSS-150VP Package of 2 x MJ-105-S and Pink Minis150V
- MJRR-150VP Package of 2 x MJ-105-R and Pink Minis150V
- MTT-150VP Package of 2 x MT-108 and Pink Minis150V
- MJSR-150VP Package of MJ-105-S&-R and Pink Minis150V
- MJST-150VP Package of MJ-105-S & MT-108 and Pink Minis150V
- MJRT-150VP Package of MJ-105-R & MT-108 and Pink Minis150V

## Smart Minis 300V Power Supply

Cat. No.: Minis 300VS

### Features

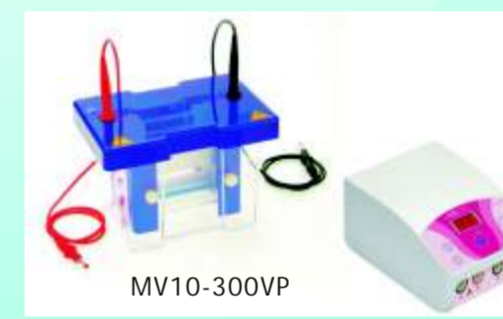
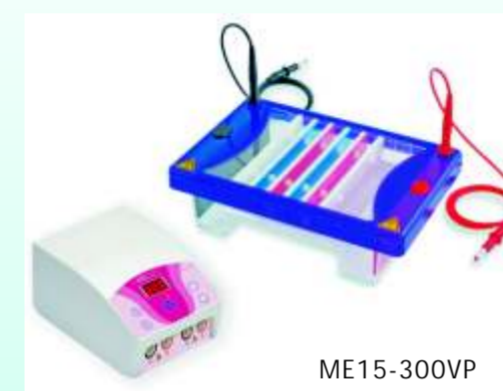
- Compact size
- Power capacity : 60W, 400mA, 300V
- 6 constant voltages : 50V, 100V, 150V, 200V, 250V, 300V
- Timer
- No Load detection
- Shrouded plugs and sockets
- Two pairs of outlet terminator
- Stability
- Economic choice for larger Horizontal Electrophoresis and Vertical Electrophoresis



## Pink Minis 300V Power Supply

Cat. No.: Minis 300VP

- Max. Voltage : 300V
- Max. Watt : 60W
- Max. Current : 400mA
- Output Type : Constant Voltage
- 6 Constant Voltages Steps : 50V, 100V, 150V, 200V, 250V, 300V
- Timer : 1~999 mins with alarm, continuous
- Safety Device : No Load detection
- Shrouded plugs and sockets
- Operating Temperature : Ambient - 40
- Unit Dimension : 115 x 150 x 80 mm (W x L x H)
- Terminator Pairs : Two pairs
- Construction Material : ABS
- Weight : 0.6 kg
- Rated Voltages : 100 - 240V
- Compact Size
- Sufficient for larger Horizontal Electrophoresis systems and Vertical Electrophoresis Systems



### Ordering information

- |             |   |
|-------------|---|
| Minis 300VS | Smart Minis 300V Power Supply           |
| Minis 300VP | Pink Minis 300V Power Supply            |
| ME15-300VS  | Package of ME15-15 and Smart Minis 300V |
| ME15-300VP  | Package of ME15-15 and Pink Minis 300V  |
| MV10-300VS  | Package of MV-10 and Smart Minis 300V   |
| MV10-300VP  | Package of MV-10 and Pink Minis 300V    |

## MP 250V Power Supply

Cat. No.: MP-250V

### Features

Compact size  
Advanced power capacity : 150W, 700mA, 250V  
Microprocessor controller  
Constant voltages and constant currents  
Four pairs of outlet terminator  
Timer with alarm function  
Advanced safety devices  
Stackability  
Wide applications for DNA, RNA and protein electrophoresis  
Better design for refrigerated condition operation

Output Voltage / Inc : 2-250V / 1V  
Output Current / Inc : 1-700mA / 1mA  
Max. Watt : 150W  
Operating Constants : Voltage or Current  
Control : Microprocessor Controller  
Terminator Pairs : 4 pairs  
Timer : 1-999 mins with alarm, continuous  
Safety Device : No Load detect  
Leakage detect  
Overload detect  
Over temperature protection  
Shrouded plugs and sockets  
Crossover : Yes  
Operating Temperature : Ambient - 40  
Unit Dimension : 190 x 290 x 95 mm (W x L x H)  
Construction : ABS faceplate and aluminum  
Weight : 2.5 kg  
Rated Voltages : 100 - 240V  
Stackability : Yes  
Compact Size & light weight

Output Voltage / Inc : 2-300V / 1V  
Output Current / Inc : 1-700mA / 1mA  
Max. Watt : 150W  
Operating Constants : Voltage or Current  
Control : Microprocessor Controller  
Terminator Pairs : 4 pairs  
Timer : 1-999 mins with alarm, continuous  
Safety Device : No Load detect  
Leakage detect  
Overload detect  
Over temperature protection  
Shrouded plugs and sockets  
Crossover : Yes  
Operating Temperature : Ambient - 40  
Unit Dimension : 190 x 290 x 95 mm (W x L x H)  
Construction : ABS faceplate and aluminum  
Weight : 2.5 kg  
Rated Voltages : 100 - 240V  
Stackability : Yes  
Compact Size & light weight

## MP 300V Power Supply

Cat. No.: MP-300V

### Features

Compact size  
Advanced power capacity : 150W, 700mA, 300V  
Microprocessor controller  
Constant voltages and constant currents  
Four pairs of outlet terminator  
Timer with alarm function  
Advanced safety devices  
Stackability  
Wide applications for DNA, RNA and protein electrophoresis  
Better design for refrigerated condition operation

### Ordering information

MP-250V MS 250V Power Supply  
MP-300V MS 300V Power Supply



## MS 500V Power Supply

Cat. No.: MP-500V

### Features

Compact size  
Advanced power capacity : 300W, 600mA ,500V  
Microprocessor controller  
Advanced programmable capability  
Four pairs of outlet terminator  
LCD Display  
Timer with alarm function  
Advanced safety devices  
Stackability  
Wide applications for DNA, RNA and protein electrophoresis  
Better design for refrigerated condition operation



Output Voltage / Inc : 5 - 500V / 1V  
Output Current / Inc : 600 mA / 1mA  
Output Watt / Inc : 300 W / 1W  
Operating Constants : Voltage or Current or Power  
Control : Microprocessor Controller  
Program Storage : 30 programmed files  
Program Multi-Step : Up to 6 steps  
Terminator Pairs : 4 pairs  
LCD Display : 2.6"  
Timer : 1-999 mins with alarm, continuous  
Safety Device : No Load detect  
Leakage detect  
Overload detect  
Over temperature protection  
Shrouded plugs and sockets

Crossover : Yes  
Operating Temperature : Ambient - 40  
Unit Dimension : 190 x 290 x 95 mm (W x L x H)  
Construction : ABS faceplate and aluminum  
Weight : 2.5 kg  
Rated Voltages : 100 - 240V  
Stackability : Yes  
Compact Size & light weight

## MS 3AP Power Supply

Cat. No.: MP-3AP

### Features

Compact size  
Advanced power capacity : 300W, 3A ,300V  
Microprocessor controller  
Advanced programmable capability  
Four pairs of outlet terminator  
LCD Display  
Timer with alarm function  
Advanced safety devices  
Stackability  
Wide applications for DNA, RNA and protein electrophoresis  
Better design for refrigerated condition operation



Output Voltage / Inc : 5 - 300V / 1V  
Output Current / Inc : 10 - 3000mA / 10mA  
Output Watt / Inc : 300 W / 1W  
Operating Constants : Voltage or Current or Power  
Control : Microprocessor Controller  
Program Storage : 30 programmed files  
Program Multi-Step : Up to 6 steps  
Terminator Pairs : 4 pairs  
LCD Display : 2.6"  
Timer : 1-999 mins with alarm, continuous  
Safety Device : No Load detect  
Leakage detect  
Overload detect  
Over temperature protection  
Shrouded plugs and sockets

Crossover : Yes  
Operating Temperature : Ambient - 40  
Unit Dimension : 190 x 290 x 95 mm (W x L x H)  
Construction : ABS faceplate and aluminum  
Weight : 2.5 kg  
Rated Voltages : 100 - 240V  
Stackability : Yes  
Compact Size & light weight

### Ordering information

MP-500V MS 500V Power Supply  
MP-3AP MS 3AP Power Supply

## Max Power 2000V Power Supply

Cat. No.: MP-2000P

### Features

Compact size  
Advanced power capacity : 200W, 300mA 2000V  
Microprocessor controller  
Programmable constant voltages  
Four pairs of outlet terminator  
Timer with alarm function  
No Load detection  
Leakage detection  
Shrouded plugs and sockets  
Stackability  
Wide applications for DNA, RNA and protein electrophoresis  
Better design for refrigerated condition operation

Max. Voltage : 2000V  
Max. Watt : 200W  
Max. Current : 300mA  
Operating Constants : Voltage or Current or Power  
Program Storage : 16 programmed files  
Program Multi-Step : Up to 6 steps  
Timer : 1~999 mins with alarm  
Display : 128 x 64 dot matrix display screen  
Safety Device : No Load detect  
Leakage detect  
Overload detect  
Operating Temperature : Ambient - 40  
Unit Dimension : 180 x 280 x 150 mm (W x L x H)  
Terminator Pairs : 3 pairs  
Construction : Polycarbonate  
Weight : 3.0 kg  
Rated Voltages : 110V / 220V selectable  
Stackability : Yes  
Compact Size & light weight



### Ordering information

MP-2000P Max-Power 2000V Power Supply

## MS 3500V HV Power Supply

Cat. No.: MP-3500-FP

## MS 5000V HV Power Supply

Cat. No.: MP-5000-FP

### Features

Compact size  
Advanced power capacity : 35W, 10000 $\mu$ A, 3500 / 5000 V  
Microprocessor controller  
Programmable constant voltages  
Four pairs of outlet terminator  
Timer with alarm function  
No Load detection  
Leakage detection  
Shrouded plugs and sockets  
Stackability  
Better design for refrigerate- condition operation  
Economic price

### Ordering information

MP-3500-FP MS 3500V HV Power Supply  
MP-5000-FP MS 5000V HV Power Supply

Customized specifications are available

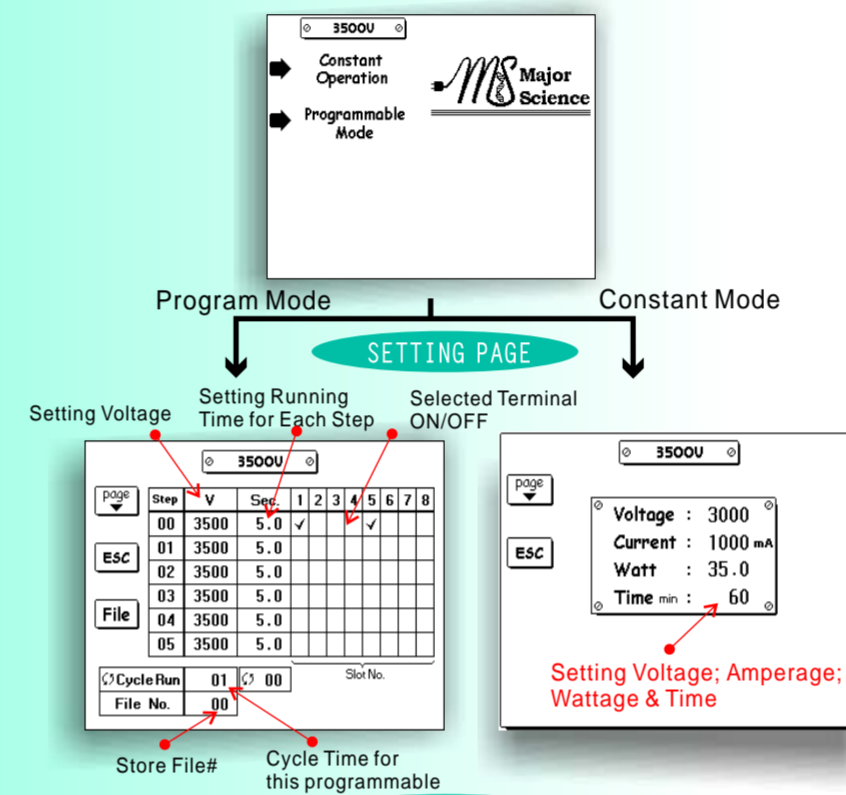


Specification	MP-3500-FP	MP-5000-FP
1. Display	320 x 240 dot matrix display screen	
2. Dimensions	220 x 300 x 330 mm ( W x D x H )	
3. Construction	Iron Painted	
4. Power Requirement	110VAC; 50~60 Hz or 220VAC; 50~60 Hz	
5. Operating Temperature Range	Ambient - 40 °C	
6. Power Outlet	4 pairs of terminal.	
7. Connected Port	I/O Control Port	
8. Remote Control Box	a. Start/Pause Bottom Switch b. Stop Bottom Switch c. Voltage Regulator	
9. Volt Raising Time	From 0 to 3500 or <b>5000</b> Volt. - less than 20 mSec	
10. Volt Falling Time	From 3500 or <b>5000</b> to 0 Volt. - less than 5 mSec	

Function Specification	
Operating Modes	Constant Voltages
Program Multi-step	up to 12 steps
Relay	8 Inner Relay
Output Voltage	0~3500/ <b>5000</b> V in 1 V steps
Output Current	0~10000 uA
Total Power	35 W
Timer	0~99.95 sec in 0.05 sec increment 0~999.9 sec in 0.1 sec increment
Cycle Time	0~9999 cycle
Storage Files	20 programs
File Link	Maximun 4 files
Weight	25 kg(62.6 lbs)

ALYS Labware  
Tel : +41 21 312 42 60  
Fax : +41 21 312 42 61  
labware@alys-technologies.com

Programmable Operating



APPLICATION

