



# 2016 Catalogue

 **major  
science**

*Innovative Life Sciences Tools*

**Power Supply**

# Handy 100V Power Supply

## MP-100

The Handy 100V Power Supply is specifically designed for DNA and RNA electrophoresis.

It allows for two constant voltages of either 50V or 100V.

The low cost, light weight and small foot print make it perfect for teaching labs as well as routine electrophoresis use.

It can be purchased individually or in packages with horizontal gel electrophoresis systems to be more economical.



MP-100



### Features

- 50V or 100V constant voltage output
- 400mA maximum current
- 40W maximum power
- Safety device
- Ultra compact size and lightweight
- Developed specifically for DNA and RNA electrophoresis
- Great value at very competitive pricing
- Bundled package with MJ-105-S, MJ-105-R, and MT-108



## Specifications

Cat. No.	MP-100
Output voltage	50V/ 100V
Output current	400mA
Output power	40W
Output type	Constant voltage
Voltage selection	50V and 100V
Safety device	No-load detection; shrouded plugs and sockets
Operation temperature	4°C - 40°C
Dimension (WxLxH)	2.36"x1.57"x4.72" (60x40x120mm)
Terminal pairs	1 pair
Material	Polycarbonate (PC)
Weight	Approx. 0.6lb (0.3kg)
Rated voltage	100 - 120V only

## Ordering Information

Cat. No.	Product Description
MP-100	Handy 100V Power Supply

## Bundle Packages

Electrophoresis Package	Product Description
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





NEW

# Mini Pro 300V / 500V Power Supply

Mini-300

Mini-500

Featuring in small size and versatility, the newly designed Mini Pro 300V / 500V Power Supply are ideal choices for any researchers. Capable of providing constant voltage or current in 1V or 1mA increment, the unit is perfectly suitable to run both vertical polyacrylamide or horizontal agarose gel electrophoresis experiments. Continuous or timed operation can be easily set up using the simple and user-friendly interface. Mini Pro 300V and 500V both feature 2 electrode pairs, allowing 2 gels to be run simultaneously, saving both time and valuable bench space. With an universal voltage rating, Mini Pro 300V and 500V are also designed and constructed to the most rigorous safety standards. Package including single or dual horizontal electrophoresis system and mini vertical electrophoresis system are excellent choices for educational or person lab purposes.



## Features

- Constant voltage or constant current operation
- 1V increment voltage control; 1mA increment current control
- Max 300V, 400mA and 60W for Mini Pro 300V
- Max 500V, 400mA and 120W for Mini Pro 500V
- Two pairs of outlet terminals
- Timer with alarm function
- Safety device
- Compact size and lightweight
- Competitive pricing choice
- Packages with midi sized horizontal electrophoresis systems and vertical electrophoresis systems



Mini 300V



Mini 500V





MJS-Mini300



MT-Mini300



MJSS-Mini300



MJST-Mini300



ME7-Mini300



ME10-Mini300



ME15-Mini300



MV10-Mini300

## Specifications

Cat. No.	Mini-300	Mini-500
Output voltage / Inc.	10 - 300V / 1V	10 - 500V / 1V
Output current / Inc.	10 - 400mA / 1mA	10 - 400mA / 1mA
Output power	60W	120W
Output type	Constant voltage or constant current	
Control	Microprocessor controller	
Terminal pairs	2 Pairs	
Timer	999 (min) with alarm / Continuous	
Safety device	No-load detection; shrouded plugs and sockets	
Operation temperature	4°C to 40°C	
Dimension (WxLxH)	5.51"x7.52"x3.31" (140x191x84mm)	
Material	Polycarbonate housing and aluminum base plates	
Weight	Approx. 2.2lb (1kg)	
Rated voltage	Universal, 100 - 240V	
Application	Sufficient for midi sized horizontal and vertical electrophoresis systems	
Program	N/A	2-step (V, mA, Ⓢ)

## Ordering Information

Cat. No.	Product Description
Mini-300	Mini Pro 300V Power Supply
Mini-500	Mini Pro 500V Power Supply

## Bundle Packages

Single electrophoresis packages	
MJS-Mini300	Package of MJ-105-S and Mini-300
MJR-Mini300	Package of MJ-105-R and Mini-300
MT-Mini300	Package of MT-108 and Mini-300
ME7-Mini300	Package of ME7-7-10 and Mini-300
ME10-Mini300	Package of ME10-7-10 and Mini-300
ME15-Mini300	Package of ME15-7-10-15 and Mini-300
MV10-Mini300	Package of MV-10DSYS and Mini-300
Dual electrophoresis packages	
MJSS-Mini300	Package of 2 x MJ-105-S and Mini-300
MJRR-Mini300	Package of 2 x MJ-105-R and Mini-300
MTT-Mini300	Package of 2 x MT-108 and Mini-300
MJSR-Mini300	Package of MJ-105-S & MJ-105-R and Mini-300
MJST-Mini300	Package of MJ-105-S & MT-108 and Mini-300
MJRT-Mini300	Package of MJ-105-R & MT-108 and Mini-300
Mini500-CP-02	Complete Package of Mini Pro 500V Power Supply and Maxi Plus Vertical Electrophoresis System
Mini500-CP-03	Complete Package of Mini Pro 500V Power Supply and Maxi Wave Vertical Electrophoresis System



Mini500-CP-02



Mini500-CP-03

# MS 300V series /500V/3AP Power Supply

MP-300V

MP-500V

MP-3AP

Major Science offers 3 models of power supplies constructed with microprocessor controller with 4 pairs of outlet terminals which covers the broadest range of applications in general laboratory. The microprocessor control offers easy-to-use operation on constant voltage, current and power while maintaining the pause/resume capability during timed or continuous operation. MP-300V is powerful enough to perform horizontal and vertical electrophoresis as well as two-dimensional electrophoresis SDS-PAGE applications. For more advanced applications, MP-500V and MP-3AP operate with a fully programmable mode and offering up to 6 multi-step setting conditions, the 2.6" LCD screen also allows you to see all the running/setting conditions while operating. All 3 models consist the great safety features to ensure safety of the lab and experiment.



## Features

- Four pairs of outlet terminals
- Timer with alarm function
- 2.6" LCD screen shows all parameters during operation (MP-500V and MP-3AP)
- Constant voltage/current operation mode (MP-300V)
- Constant voltage/current/power operation mode (MP-500V and MP-3AP)
- Compact size with stackable case
- Wide applications for DNA, RNA and protein electrophoresis and blotting
- Advanced safety device design
- Universal rated voltage for worldwide distributions



MP-300V



MP-500V



MP-3AP

## Specification

Cat. No.	MP-300V	MP-500V	MP-3AP
Display	LED	2.6"LCD	
Output voltage / Inc.	2 - 300V / 1V	5 - 500V / 1V	5 - 300V / 1V
Output current / Inc.	1 - 700mA / 1mA	1 - 800mA / 1mA	10 - 3000mA / 10mA
Output power / Inc.	150W	300W / 1W	
Output type	Constant voltage / Current	Constant voltage / Current / Power	
Controller	Microprocessor controller		
Program storage	N / A	30 programmed files	
Program	N / A	Up to 6-step (V, mA, W, Ⓢ)	
Terminal pairs	4 Pairs		
Timer	Constant mode:9999 (min) with alarm / Continuous		
	N / A	Programmable mode: 999 (min) with alarm / Continuous	
Pause function	Yes		
Safety device	No-load detection		
	Leakage detection		
	Sudden load change detection		
	Over temperature protection		
	Overload detection		
	Shrouded plug and sockets		
Crossover	Yes		
Operation temperature	4°C to 40°C		
Dimension (WxLxH)	7.48"x12.01"x3.74" (190x305x95mm)		
Material	Flame retardant ABS plates and aluminum		
Weight	Approx. 5.5lb (2.5kg)		
Rated voltage	100V - 240V		
Stackable	Yes		

## Ordering Information

Cat. No.	Product Description
MP-300V	MS 300V Power Supply
MP-500V	MS 500V Power Supply
MP-3AP	MS 3AP Power Supply



Four pairs of outlet terminals



Stackable case





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