

2019-2020 Catalogue

version 1.0



Power Supply

 **major
science**
Innovative Life Sciences Tools

Handy 100V Power Supply

MP-100

The Handy 100V Power Supply is specifically designed for DNA and RNA electrophoresis. It allows 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 for economical purposes.

Features

- 50V or 100V constant voltage output
- 400mA maximum current
- 40W maximum power
- Safety device
- Ultra compact size
- Developed specifically for DNA and RNA electrophoresis
- Great value at very competitive pricing
- Bundled package with MJ-105A 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)	Approx. 2.4"x1.6"x4.7" (60x40x120mm)
Terminal Pairs	1 pair
Material	Polycarbonate (PC)
Weight	Approx. 0.7lb (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
MJA-100P	Package of MJ-105A and MP-100
MT-100P	Package of MT-108 and MP-100
MJAE-100P	Package of MJ-105A, MP-100, and MBE-300; amber filter lid with fan, synthetic paper hood are included



MP-100



MJA-100P



MT-100P



MJAE-100P

Specifically designed for DNA and RNA electrophoresis.

*All images are for reference only, actual products might differ from the images.

*Please visit our website at www.majorsci.com for more product selection and detailed information.

*Technical specification subject to change without notice.

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. Moreover, the upgraded 2 step programmable function is more practical for protein electrophoresis. 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
- 2 step programmable control



MINI-300



MINI-500



2 step programmable control

Specifications

Cat. No.	MINI-300	MINI-500
Output Voltage / Inc.	Step1: 10 - 300V / 1V Step2: 10 - 300V / 1V	Step1: 10 - 500V / 1V Step2: 10 - 500V / 1V
Output Current / Inc.	Step1: 10 - 400mA / 1mA Step2: 10 - 400mA / 1mA	Step1: 1 - 400mA / 1mA Step2: 1 - 400mA / 1mA
Power	60W	120W
Output Type	Constant voltage or constant current	
Control	Microprocessor controller	
Terminal Pairs	2 pairs	
Timer	999 (min) with alarm / continuous (set=0)	
Safety Device	No load detection; shrouded plugs and sockets	
Operation Temperature	4°C - 40°C	
Dimension (WxLxH)	Approx. 5.5"x7.5"x3.3" (140x191x84mm)	
Material	Polycarbonate housing and aluminum base plates	
Weight	Approx. 2.2lb (1kg)	
Rated Voltage	100 - 240V~, 50-60Hz, 2A	100 - 240V~, 50-60Hz, 2.5A
Program	2-STEP Program	
Presetting Value	STEP1(V: 300V); STEP2(V: 300V) STEP1(A: 16mA); STEP2(A: 24mA) STEP1(T: 15min); STEP2(T: 120min)	STEP1(V: 500V); STEP2(V: 500V) STEP1(A: 16mA); STEP2(A: 24mA) STEP1(T: 30min); STEP2(T: 240min)
	*if time is set 0, system will keep running until user manually stops. *If voltage or current is set 0 in step 2, system will not proceed to step 2.	

Ordering Information

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



Lively 300V/ 500V/ 3AP Power Supply

MP-310
MP-510
MP-320

Major Science offers 3 models of power supplies constructed with microprocessor controller and 4 pairs of outlet terminals which covers the broadest range of application in general laboratory. The microprocessor control can perform either continuous or timed output, and user is able to pause and resume anytime without resetting the timer.

MS Lively Power Supply is power enough to perform horizontal and vertical electrophoresis as well as two dimensional electrophoresis SDS-PAGE applications. In addition, it can operate with a fully programmable mode and offer up to 6 multi-step setting conditions. The 2.4" TFT-LCD colored screen also allows you to see all the running/setting conditions while operating. For those beginners in electrophoresis, the built-in data for some typical running condition could be extremely helpful. All 3 models are designed with great safety features to ensure safety of the lab and experiment.



MP-310



MP-510



MP-320



Features

- Four pairs of output terminals
- 2.4" TFT-LCD colored screen shows all parameters during operation
- Timer with alarm function
- Compact size with stackable case
- Constant voltage/ current/ power operation mode
- Typical running condition helps electrophoresis beginner
- Wide application for DNA, RNA and protein electrophoresis and blotting
- Advanced safety device design
- Universal rated voltage for worldwide distributions

Specifications

Cat. No.	MP-310	MP-320	MP-510
Output Voltage / Inc.	5 - 300V / 1V	5 - 300 / 1V	5 - 500 / 1V
Output Current / Inc.	1 - 700mA / 1mA	10 - 3,000mA / 10mA	1 - 800mA / 10mA
Power	Output: 150W; Input: 200W	300W	300W
Rated Voltage	100-240V~; 47-60Hz	100-240V~: 47-60Hz	100-240V~: 47-60Hz
Type Of Output	1. Voltage or Current with automatic crossover 2. When target constant mode is set, system automatically adjusts the two other parameter to maximum to allow constant run (later could be changed by user)		
Program Storage	30 programmed files		
Program Multi-Step	Up to 6 steps		
Editable Program Function	1. Typical running conditions program 2. Manual editable program		
Display	2.4" TFT		
Control	Microprocessor controller		
Safety Device	No Load detect		
	Leakage detect		
	Over temperature protection		
	Over load detection		
	Sudden load change detection (could be enabled by proper setting)		
Timer	Shrouded plugs and sockets		
	Constant: 9999 (min) with alarm / continuous Program: 999 (min) with alarm / continuous		
Crossover	YES		
Stackable	YES		
Automatic Recovery After Power Failure	YES		
Operating Temperature	4°C- 40°C		
Construction Material	PC housing and flame retardant ABS faceplate		
Dimension (WxLxH)	Approx. 8.5"x13.2"x4.1" (215x335x104mm)		
Weight	Approx. 4.6lb (2.1kg)		

Ordering Information

Cat. No.	Product Description
MP-310	Lively 300V Power Supply
MP-320	Lively 3AP Power Supply
MP-510	Lively 500V Power Supply



Four pairs of outlet terminals



Stackable case

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