

Basic Electrospinning Series



Model BS-35V-2-ESD

NLI Basic Electrospinning Series offers researchers a low-cost, versatile and portable electrospinning setup consisting of 3 main components: High Voltage Power Supply, Syringe Pump and Rotary Collector with speed controller.

Using this system, various polymers and composite materials have the potential to be electrospun and the process is easy and economical.

COMPONENTS

- ◇ High Voltage Power Supply
- ◇ Syringe Pump
- ◇ Collector and Speed Controller

FEATURES

- ◇ Modular electrospinning setup
- ◇ Portable and flexible to change any component
- ◇ Easy assembly and maintenance
- ◇ Digital display on all components
- ◇ Suitable for D.I.Y
- ◇ Add on accessories are available

APPLICATIONS

- ◇ Air and liquid filtration
- ◇ Tissue engineering
- ◇ Drug delivery
- ◇ Implant materials
- ◇ Wound dressing
- ◇ Solar cell
- ◇ Fuel cell
- ◇ Supercapacitor
- ◇ Protective clothing
- ◇ Cosmetics
- ◇ Oil-water separation



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High Voltage Power Supply

Model	PS35-PV
Input power	100-240VAC; 50-60 Hz
Max output voltage	35kV
Power	30 Watt
Ripple	Less than 0.1%
Stability	0.1% per hour after 1/2 hour warm up
Efficiency	Typically, 80% at full load
Current monitoring	Digital, Accuracy: 1 μ A



Syringe Pump

Model	NLS20
Input power	100-240VAC; 50-60 Hz
No. of syringes	2
Max. syringe size	60ml
Min. flow rate	0.5 μ l/h
Max. flow rate	1000ml/h
Pedal resolution per step	13nm
Display	4 line, 20-character LCD display



Drum Collector

Model	ESD-30S
Input power	100-240VAC; 50-60 Hz
Rotation speed	Up to 3000 rpm
Length of collector	28cm
Collector diameter	8cm
Speed control	10 turn potentiometer
Display	2x16 character LCD

* Product specifications are subject to change without prior notice due to engineering innovations