

Nordson® EPS Series Electrostatic Power Supplies



Durable power supplies provide reliable, efficient electrostatic charging of liquid coatings.

The Nordson EPS series power supplies produce high-voltage, low-current power for safe, effective electrostatic charging of liquid paints and coatings. EPS power supplies provide superior electrostatic charging for high quality finishes and efficient material utilization.

Three models are available, which allow finishers to select the optimal voltage output for their specific operations:

- The EPS6 power supply provides superior performance with 60kV rated automatic and manual waterborne finishing systems.
- The EPS8 provides 76 kV, the voltage which is generally preferred for manual finishing systems using solvent-based coatings.
- The EPS9 produces 115 kV, making it ideal for automatic finishing systems using solvent-based coatings.

Voltage for each EPS power supply can be manually adjusted to as low as 30 kV for maximum operating flexibility with a variety of coating materials, substrates and part shapes. Output voltage is digitally displayed on the front panel of the unit.

Connection of a PLC (programmable logic controller) to the power supply allows automatic, sixteen-step adjustment of the kV output.

High-performance, Long-life Design

EPS power supplies feature a "wet" high-voltage well design. High-performance dielectric oil provides the maximum available output voltage and longest possible electrostatic component life.



Continuous Electrostatic Monitoring

The digital display is operator selectable to indicate either the output voltage or current. The dual-purpose display provides a precise and continuous monitoring of the electrostatic system during operation. A current limiter is adjustable from 20 to 200 microamps, and automatically turns off the high voltage if the current exceeds the limit. The current-limiting feature is standard with the EPS9 and available as an option with the EPS8.

Input Voltage Selection

Selector switches located inside the units allow easy operator adjustment of the input voltage. Operator-selectable 120/240 VAC and 100/200 VAC models are available. Voltage-stabilization circuitry provides consistent high-voltage operation regardless of input-voltage fluctuations.

Solid-state Circuitry

Reliable solid-state circuitry provides long service life, and cost-effective maintenance and repair. Light-emitting diodes (LEDs) are included on the main circuit board and on the current limiter board for diagnostic purposes. User-serviceable circuit-board components provide fast, in-plant repair or replacement.

Features and Benefits

- **Digital output-voltage display** for operating flexibility and control.
- **Dual-purpose voltage/current display** provides continuous monitoring of the electrostatic system during operation.
- **Voltage selector switch** provides a choice of two input voltages for ease of installation.
- **Voltage-stabilizing circuitry** provides consistent high-voltage operation regardless of input voltage fluctuations.
- **Light emitting diodes (LEDs)** provide fast, easy troubleshooting.
- **Current limiting feature** automatically turns off high voltage when circuit current exceeds a manually set limit. (Not available with model EPS6.)

Specifications

Dimensions

Height 14.0 in. (35.6 cm)
Width 12.0 in. (30.5 cm)
Depth 6.0 in. (15.2 cm)

Electrical

Input Voltage (single phase)
120/240 VAC, 50/60 Hz
100/200 VAC, 50/60 Hz

Maximum Output Voltage

60 kV (EPS6)
76 kV (EPS8)
115 kV (EPS9)

Short Circuit Output Current
(power unit, cable, gun – maximum)
150 microamperes (EPS6, EPS8)
170 Microamperes (EPS9)

Automatic Shutdown Current
20 to 200 microamperes (adjustable)

Current Limiter

Unavailable for EPS6
Optional for EPS8
Standard for EPS9

Environmental

Operating Temperature Range
32° to 140° F (0° to 60° C)



Nordson reserves the right to make design changes to products to improve their function.
These changes may occur between printings.

For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.

United States

Amherst, Ohio
Telephone: 800.955.9563
Facsimile: 440.985.1536
Web: www.nordson.com/liquid
E-mail: liquidmarketing@nordson.com

www.nordson.com

Canada

Markham, Ontario
Telephone: 800.463.3200
905.475.6730
Facsimile: 905.475.8821
www.nordson.ca

Europe

Erkrath, Germany
Telephone: 49.211.9205.0
Facsimile: 49.211.254658
E-mail: info@de.nordson.com

Japan

Tokyo, Japan
Telephone: 81.3.5762.2700
Facsimile: 81.3.5762.2701
E-mail: ppa.dm@nordson.co.jp
www.nordson.co.jp

Asia/Australia/Latin America

Amherst, Ohio
Telephone: 440.985.4000
24-hour message service:
440.985.4797
E-mail: intcustomerservice@nordson.com

