**SPECIFICATIONS**

**PHYSICAL**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Single</th>
<th>Dual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>88.63 mm (H) x 215.9 mm (W) x 406.4 mm (D)</td>
<td>88.63 mm (H) x 482.6 mm (W) x 406.4 mm (D)</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>3.5” (H) x 8.5” (W) x 16” (D)</td>
<td>3.5” (H) x 19” (W) x 16” (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>5.57 kg (12.25 lb)</td>
<td>11.14 kg (25 lb)</td>
</tr>
</tbody>
</table>

**Power Output Cable**

- RG-8U coaxial cable
- Discrete cables, optional

**Power Output Connector**

- UHF style, optional
- "N" type, optional
- SHV style, optional

**DIMENSIONS**

- Width: 482.6 mm
- Depth: 406.4 mm
- Height: 88.63 mm

**MDX 500 FEATURES**

- Status LEDs: Indicate power supply status.
- Output Stop & Start: Turn output on and off.
- Digital Motor: Displays, regulates or outputs power, voltage, or current.
- Level: Adjust the output response.
- Regulation Switches: Select the power regulation mode.
- Display: Selects displayed parameter.
- Status LEDs: Indicate present system status.
- Digital Meter: Displays setpoint or output power, voltage, or current.
- Level: Adjusts output setpoint.

**DISCOVER THE POWER OF A**

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**MDX LOW-Power 500 W**

Use for continuous hard use in small-scale vacuum environments.
The MDX 500 is intended for continuous hard use in a vacuum environment. It is a leading performer in basic magnetron sputtering, dc sputtering with RF bias, and dc-biased RF sputtering. Its small size makes it well suited for laboratory systems and small-scale production environments.

MDX drives use a high-frequency conversion technique to provide tight regulation, high conversion efficiency, and low stored energy at the output.

The MDX 500 provides exceptional accuracy and repeatability in a convenient-ly small and affordable package.

FEATURES
- Advanced flow™ null modulation conversion modules achieve high efficiency from line to load. The high-frequency method ensures a rapid response to plasma load changes. The design reduces stored energy at the output by several orders of magnitude.
- Ensures a rapid response to plasma load from line to load. The high-frequency method ensures a rapid response to plasma load changes. The design reduces stored energy at the output by several orders of magnitude.

Several MDX power modules meet strict CE standards for safety, immunity, and emissions.

FUNCTIONAL SPECIFICATIONS
- The MDX 500 has a digital meter that displays the actual output in Watts, Volts, or Amps, or the Setpoint level in the selected mode of regulation.
- Controls
  - Output Stop & Start switches turn output on and off. Regulation selects the method of output regulation; the Level knob adjusts the output setpoint; and monitoring output setpoint, and measuring output parameters and status.
- Status Indicators
  - Are occurred. Setpoint has been reached; Output is on; Interlock conditions have been satisfied. Fluctus is present, either on/off control or setpoint control or both are under Remote control.
- Remote Operation (Analog/Digital)
  - The 25-pin analog/digital I/O port provides lines for controlling output on/off, controlling output setpoint, and monitoring output parameters and status.

User I/O Access
- Many of the functions that are available from the control panel are also available through the user interface: turning output on and off; specifying the method of output regulation; completing the system interlock string; specifying the output setpoint; and monitoring output parameters and status.

Built-in Protection
- The MDX 500 has complete internal protection for all overload conditions. Three separate pins on the User port and a front panel indicator are provided for safety-related inputs such as vacuum, water, and auxiliary (user specified) interlocks.

Compliance Certifications
- Several CE-compliant MDX 500 modules are available. These modules meet the requirements of EN61312-2 (emissions), EN55022-2 (immunity), and EN61807 (satellite). They also meet the requirements of the German safety standard, DIN VDE0163.

Availibility and Serviceability
- Advanced Energy Industries, Inc., has used great care in selecting components and designing the MDX family of power supplies, making them among the most reliable and quality-oriented systems available. All parts and labor carry our standard one-year warranty. When a unit requires service, its small size makes removal and handling easy. These features, combined with responsive factory support, give you superior productivity over the long life of the unit.