

Magnetron Power Supply



MPS500
500 W DC

MPS1500P
1500 W pulsed DC

The MPS500 and MPS1500P are versatile dual source power supplies for R&D coating & cleaning applications.

They can control up to two sources which can be any combination of compact magnetron sputter sources or glow discharge electrodes.

The 1500W model MPS1500P offers DC or pulsed DC mode operation with intuitive pulse width control on the graphical LCD screen.

The 500W model MPS500 also features one input for monitoring of an active vacuum gauge with interlock functionality.

Stability and control

Extremely stable output allows for operating the sources even at low power levels (<2W) which makes this device unique in its class and ideal for low rate and precise coating applications.

Fast ramp response is guaranteed with fast arc detection and suppression.

Features & Benefits

- DC and/or PulseDC operating mode
- Integrated switch to connect to two magnetrons
- Fast arc detection and suppression
- Selectable voltage, current & power regulation mode
- Stable operation down to 2 Watts
- Large impedance range
- Ideal for 1" to 4" magnetron operation
- User friendly interface with LCD display, keypad and rotary encoder operation
- One pressure measurement gauge channel for active gauges*

* list of gauges frequently updated by firmware upload



Specifications



| | MPS500 | MPS1500P |
|-----------------------------|---|----------------------------------|
| Output power | 1...500 W | 3...1500 W |
| Output voltage | 1000 V | 1200 V max |
| Output current | 1 A max | 2 A max |
| Mode of operation | DC | DC and PulseDC |
| Outputs | 2; connector N type | 2; connector N type |
| Frequency of operation | - | 1...75 kHz for PulseDC |
| Main supply | 230 VAC/3.15 A | 230 VAC/6.15 A |
| Display | Alphanumeric LCD 2 x 16 | Graphics LCD 240 x 64 |
| Active vacuum gauge support | Yes | No |
| Hardware interface | RS232 or RS485, Bluetooth, EthernetIP, Analog I/O | RS232, EthernetIP, Analog I/O |
| Arc management | Advanced with control | Advanced |
| Monitoring of target usage | - | Yes |
| Standards compliance | CE, RoHS | CE, RoHS |



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