

Brounley RF
LD Series RF Plasma Generators
LD2500 Shoebox



The LD Series RF power generators deliver maximum rated output powers of **2500** watts at frequencies of *13.56, 27.12, 40.68, 81.36 and 100 Mhz.* New LDMOS transistors are at the heart of the design. These new transistors have lower thermal resistance, higher frequency capability and improved linearity. The low feedback capacitance of the transistors also improves spectral purity into non-linear plasma conditions. The transistors are rugged into all mismatched impedances. The extended frequency range results in increased plasma density, lower voltage, and higher yield for today's state of the art requirements.

**Lateral
Diffusion
Mosfet**



Features and Benefits

- Lower transistor junction temperatures
- High ignition power (full forward power into 2:1 VSWR)
- High repeatability and stability
- Low cost design uses a fixed 48 volt world compliant AC/DC section

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Specifications

Rated power output	2500 watts
Frequency stability	13.56 Mhz \pm 0.005 % (frequencies available to 160 Mhz)
Dynamic power range	10 - 2500 watts
Load impedance range	Unlimited
RF stability/spurious output	Unconditionally stable for any load , > 60 dBc
Harmonic output	> 40 dBc
Operating VSWR	2:1
Accuracy	Regulation tolerance of \pm 3 % of set point
AC source	220 - 250 VAC @ 20 amps (overall efficiency 60 %)
Cooling	Water, 2 gpm @ 30 degrees C
Weight	25 lbs.
Dimensions	5 X 8 X 15 inches
Compliance	Meets safety and RFI/EMI requirements
Remote Interface	25 pin D connector (other type connectors available) VSWR, over-temp, set point, forward, reflected

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