

*Brounley RF
Generators*

LD Series RF Plasma



The LD Series RF power generators deliver maximum rated output powers of 1250 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 including arc conditions. 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

Specifications

Rated power output	1250 watts
Frequency stability	13.56 Mhz \pm 0.005 % (frequencies available to 100 Mhz)
	Frequency sweep 12 to 15 Mhz
Dynamic power range	10 - 1250 watts
Load impedance range	Unlimited
RF stability/spurious output	Unconditionally stable for any load , > 60 dBc
Harmonic output	> 40 dBc
Operating VSWR	2:1, 3:1 with pulse width modulation option (variable DC)
Accuracy	Regulation tolerance of \pm 3 % of set point
AC source	220 - 250 VAC @ 10 amps (overall efficiency 60 %)
Cooling	Water, 2 gpm @ 30 degrees C
Weight	25 lbs.
Dimensions	2 U rack mount 16 inches D
Compliance	Meets safety and RFI/EMI requirements
Remote Interface	25 pin D connector (other type connectors available)
	VSWR, over-temp, set point, forward, reflected