

# DATA SHEET

**RADIO FREQUENCY GENERATOR 13.56 and 27.12 MHz**

**10 kW, 30 kW, 40 kW, 50 kW, 70 kW, 90 kW**

**GHP 100 KE, GHP 200 KE, GHP 300 KE, GHP 400 KE,  
GHP 500 KE, GHP 700 KE  
and GHP 900 KE**

**GRP 100 KE, GHP 200 KE, GRP 300 KE, GRP 400 KE,  
GRP 500 KE, GRP 700 KE  
and GRP 900 KE**



\*All designs, specifications and availabilities of products and services presented in this document may be subject to change without notice

---

**GHP AND GRP SERIAL FOR HIGH POWER**

---



The tube generators are RF amplifiers with triode. They are quartz-driven and operate in the 13.56 MHz or 27.12 MHz range. Their emitting power is 10, 30, 40, 50, 70 or 90 kW with 50  $\Omega$  matched load. Their power stability and spectrum quality make them adequate to supply applicators with high overvoltage coefficients, for a wide range of applications such as plasma at atmospheric pressure or thermal treatment by dielectric losses for industry or research.

Our generator is mounted like a quartz-driven amplifier. It is composed of :

- First stage :solid state generator, 1/10 output power to, drive second stage. It is a mounting with semiconductor (bipolar transistor) composed of circuits associated to couplers with ferrites.
- Second stage : it is the power amplifier composed of a high gain tetrode or triode associated to an oscillating circuit coil/capacitor. The mounting is of grounded cathode or grounded grid.

The generator is equipped with a dual directional coupler allowing to measure the forward and reflected powers.

Main specifications :

Each function on/off and analogue (0-10V) are available for full remote.

Buttons, state LED and digital display (forward power and reflected power) are on the front panel.

## GHP AND GRP SERIAL FOR HIGH POWER



Frequency

13.56MHz for GRP ; 27.12 MHz for GHP

	100KE A 400	100KE W 400	300KE A 400	300KE W 400 (ECH)	400KE W 400 ECH	500KE W 400 ECH	700KE W	900KE W 400 ECH
Power	10 kW	10 kW	30 kW	30 kW	40 kW	50 kW	70 kW	90 kW
Electric supply 50/60Hz	3*400V	3*400V	3*400V	3*400V	3*400V	3*400V	3*400V	3*400V
Airtight	No	No	Option	Option	Yes	Yes	Yes	Yes
Cooling	Air	Water	Air	Water	Water	Water	Water	Water
Dimensions								
length	1016	1016	1200	1200	1200	1200	2000	2000
depth	590	590	800	800	800	800	800	800
height	1560	1560	2000	2000	2000	2000	2000	2000
Output connector	1"5/8	1"5/8	1"5/8	1"5/8	3"1/8	3"1/8	3"1/8	4"1/2