

Since 1998



Plasma Technology Limited

RF generator, automatic matching network

Product Introduction

Plasma Technology Limited provides solid-state design 13.56MHz RF generators and Auto matching networks with precise and repeatable power control, ultra-stable output and low cost of ownership. They are ideally suited for applications including, PECVD, HDPCVD, PVD, ALD, etch and strip for the manufacture of integrated circuits, solar cells, flat panel displays, LEDs, MEMs and data storage devices.

Product Series

RF Generator, 13.56MHz

1. 500W RF generator – Model: RF5
2. 1000W RF generator – Model: RF10
3. 2000W RF generator – Model: RF20
4. 5000W RF generator – Model: RF50

RF Matching Network

1. Standard Automatic matching 500W (MN5A), 1KW (MN10A), 2KW (MN20A), 5KW (MN50A)

The RF Generators have to be coupled with Matching Network for applications:

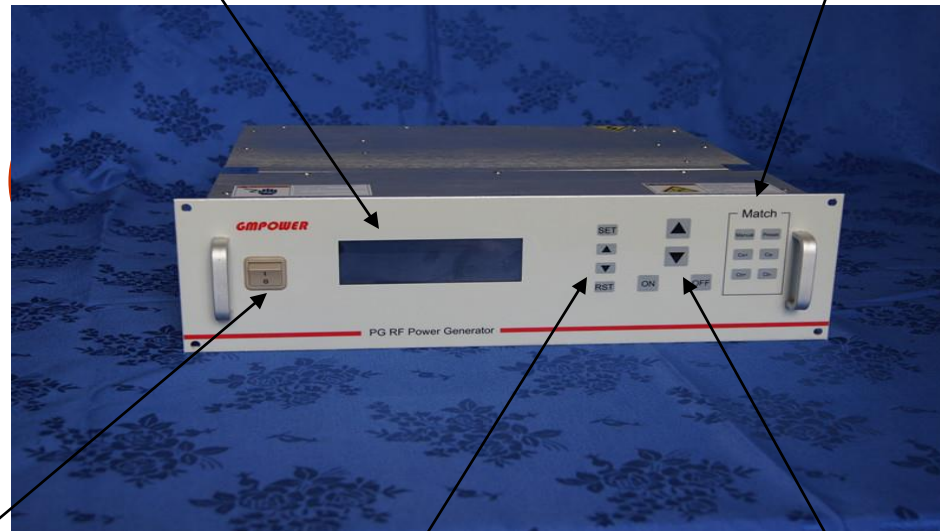
RF5 ↔ MN5A; RF10 ↔ MN10A; RF20 ↔ MN20A; RF50 ↔ MN50A

One has to let us know the application background of either Capacitively Coupled Plasma (CCP) or Inductively Coupled Plasma (ICP) when you are going to purchase.

The Power Interface

LCD Screen

Matching control

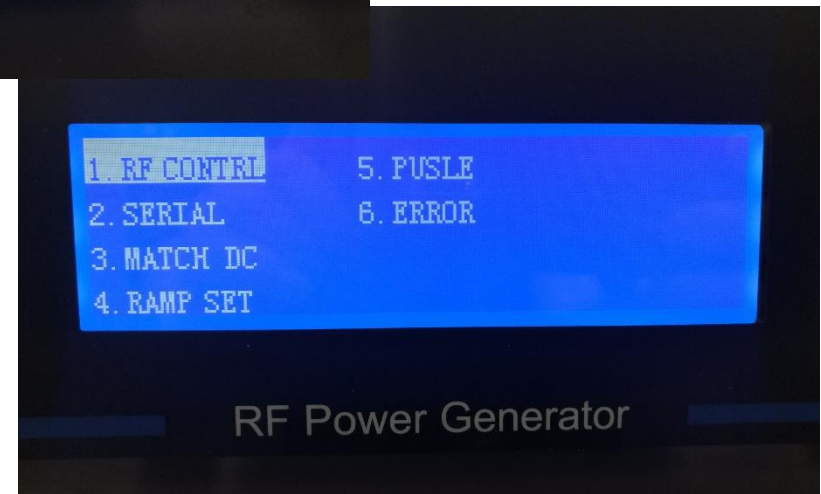
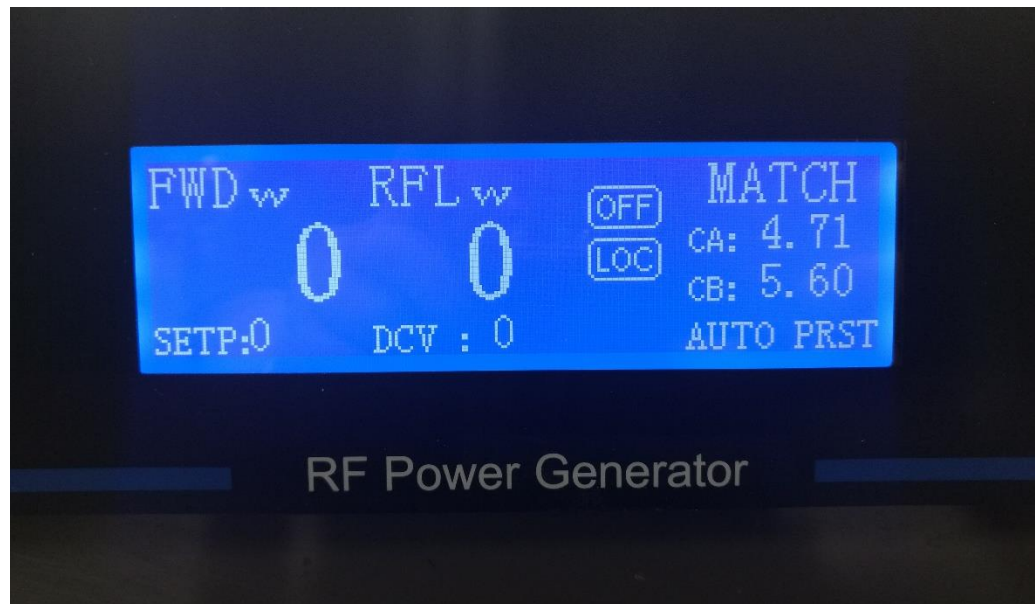


AC switch

Power setting and ON/OFF

Parameter setting

LCD Screen Interface



Standard RF Generator 500W

- Power standard : 500W
- Power stability : $\leq \pm 1\%$
- Frequency : 13.56MHz
- Frequency signal : Sinusoidal waveform
- Input voltage: AC180-250V
- Input current : 5A/6A/10A
- Output impedance : 50 Ω
- Cooling Model : Air-cooling
- COM port : RS232,RS485,Standard Modbus
- Output interface : N / UHF type head
- Control mode : Digital interface, Analog interface 0-10V/DB15
- Size :17.32 (wide) *15.28(deep) *3.31 (high) inch Standard 2U
- Panel size : 18.90 (wide) *3.46 (high) inch
- Weight : ~18.74 lb
- Integrated matcher control interface
- Master-slave mode CEX



1000W RF Generator

- Power standard :1000W
- Power stability : $\leq \pm 0.5\%$
- Input voltage : AC180-250V
- Input current : 10A
- Frequency :13.56MHz
- Output impedance : 50 Ω
- Frequency signal : Sinusoidal waveform
- Cooling Model : Air-cooling
- COM port : RS232,RS485,Standard Modbus
- Output interface : N / UHF type head
- Control mode : Digital interface, Analog interface 0-10V/DB15
- Size :17.32 (wide) *20.67(deep) *3.31 (high) Standard 2U
- Panel size : 18.90 (wide) *3.46 (high)
- Weight : 33.07 lb
- Integrated matcher control interface
- Master-slave mode CEX



2000W RF Generator

- Power standard : 2000W
- Power stability : $\leq \pm 1\%$
- Input voltage : AC380V 3PH
- Input current : 16 A
- Frequency : 13.56MHz
- Output impedance : 50 Ω
- Frequency signal : Sinusoidal waveform
- Cooling Model : Water-cooling
- COM port : RS232, RS485, Standard Modbus
- Output interface : N / UHF type head
- Control mode : Digital interface, Analog interface 0-10V/DB15
- Size : 17.32 (wide) * 20.67(deep) * 5.24 (high) Standard 3U
- Panel size : 18.90 (wide) * 5.24 (high)
- Weight : 55.12 lb
- Integrated matcher control interface
- Master-slave mode CEX



5000W RF Generator

- Power standard : 5000W
- Power stability : $\leq \pm 1\%$
- Input voltage : AC380V 3PH
- Input current : 20 A
- Frequency : 13.56MHz
- Output impedance : 50 Ω
- Frequency signal : Sinusoidal waveform
- Cooling Model : Water-cooling
- COM port : RS232, RS485, Standard Modbus
- Output interface : N / UHF type head
- Control mode : Digital interface, Analog interface 0-10V/DB15
- Size : 17.32 (wide) * 20.67 (deep) * 5.24 (high) Standard 3U
- Panel size : 18.90 (wide) * 5.24 (high)
- Weight : 55.12 lb
- Integrated matcher control interface
- Master-slave mode CEX



RF Automatic Matching Network Advantage

- Using the advanced algorithm of foreign ,mature and reliable
- Manual/Automatic switching
- Matching speed : 3 seconds
- Ability to adapt to the load. The algorithm for the different load



RF Automatic Matching Network

- Power standard : 500W, 1KW, 2KW
- Input voltage : AC180-250V 50Hz
- Input current : 0.5 A
- Frequency : 13.56MHz
- Cooling Model : Forced air-cooling
- COM port : DB15 Needle interface,

Using the RS232 /RS485 communication protocol

- Output mode : N/UHF type head, Copper strip output
- Control mode : Analog interface 0-10V, Digital interface
- Mode size : 15.35 (long) *10.24 (wide) *5.22 (high)
- Weight : 17.63 lb/23.15 lb/23.15 lb
- Can display the forward power, reflection power, DCV, Ca, Cb
- Manual/automatic control capability



5KW Matching Network

- Power standard : 5KW
- Input voltage : AC180-250V 50Hz
- Input current : 0.5A
- Frequency :13.56Mhz
- Cooling Model : Water-cooling
- COM port : DB15 Needle interface,

Using the RS232 /RS485 communication protocol

- Output mode : N/UHF type head, Copper strip output
- Control mode : Analog interface 0-10V, Digital interface
- Mode size : 16.73 (long) *12.60 (wide) *6.97 (high)
- Weight : 26.46 lb
- Can display the forward power, reflection power, DCV, Ca, Cb
- Manual/automatic control capability



RF Generator & Auto Matching Network

500W, 1kW, 2kW, 5kW available



For further information please contact:



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