



Comet RF Delivery System: cito Plus RF Generator & AGS Impedance Matching Network Matched Performance

High performance, high reliability and precise control of plasma processes at a competitive price: these are the characteristics of the Comet RF delivery system, consisting of our AGS Impedance Matching Network and the cito Plus RF Generator.

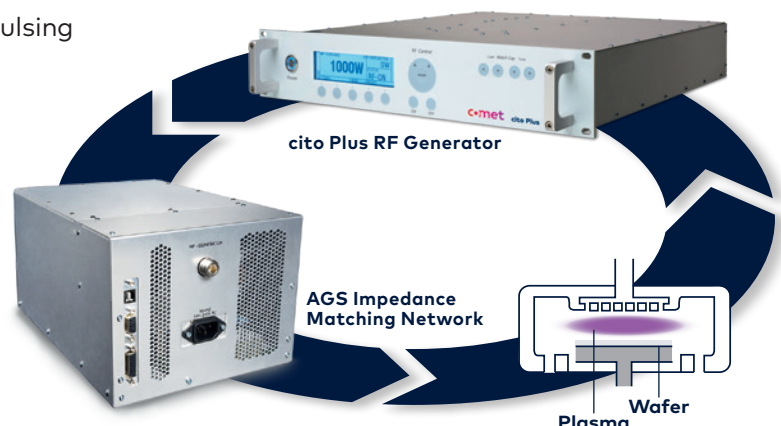
These pairs are ideal for semiconductor or industrial applications. They offer high reliability and repeatable operation over the lifetime of the product.

The AGS Matching Network offers multiple mounting options and adjustable tap settings for wide tune ranges in a compact design. The full user interface and compatible pulsing with the cito Plus RF Generator allows a seamless communication.

Of course both products are also available individually.

Benefits

- Seamless communication between cito Plus RF Generator and AGS Matching Network
- Perfectly matched performance
- Pulsing compatible
- Flexible and affordable solution



Led by experience. Driven by curiosity.

AGS Impedance Matching Network

The simple matching network is ideal for plasma and thin-film applications in most different industries, laboratories or institutes.

The digital controller features high speed tuning, customized algorithms and synchronized pulsing.

AGS tracks automatically the optimum tune position:

- Pulse synchronization with cito Plus RF Generator
- End-to-end capacitor tuning with max. 3 s
- Standalone auto-tuning for any RF source

Features

- Compact size with multiple mounting options
- L configuration with tappable inductors
- Multiple output connector types

AGS technical data

Dimensions (width x depth x height)	1000 W – 3000 W: 208 x 324 x 157 mm 4000 W – 5000 W: 208 x 384 x 193 mm
Output connector	7-16, MC10, Mount Bar
Digital user interface	Control via front panel of RF Generator or via digital user interface
AC mains input	90 to 264 V AC single phase
Compatibility	Seamless communication with cito Plus RF Generator series
Cooling	Air: 1000–3000 W / Water: 4000–5000 W
Range of applications	Applications with capacitive or inductive loads (ICP) up to 5 kW
Pulsing	Pulse mode up to 10 kHz

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Comet AG
Flamatt

Germany

Comet Yxlon GmbH
Aachen

United States

Comet Technologies USA, Inc.
San Jose/CA

China

Comet Mechanical Equipment
(Shanghai) Co. Ltd., Shanghai

Korea

Comet Technologies
Korea Co., Ltd., Suwon-si

Malaysia

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cito Plus RF Generator

Offers superior pulsing quality and stability making it a great choice for all plasma applications.

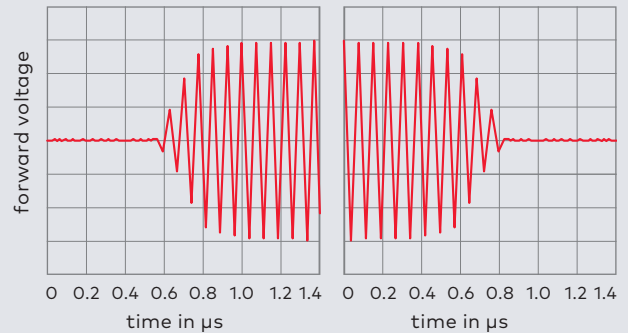
Exceptional pulsing performance

Pulse rise time

Ultra short rise times <300 ns

Pulse fall time

Clean falling edge of the pulse



Enhanced plasma stability

- Forward power independent from plasma load impedance.
- Stable output power independent of cable lengths.

cito Plus technical data

Frequency, stability and accuracy	13.56/60 MHz, ± 50 ppm
Output power	1 W to 600 W 1 W to 1000 W 13.56 MHz: 1 W to 1100 W
RF accuracy	± 1.0% of setpoint or ± 0.10% of max. power, whichever is greater
RF pulsing, pulse rate	1 Hz to 100 kHz
Interfaces	Analog, RS232, Ethernet, Profibus, Matching network control
CEX	Master/slave
Configuration	
Dimensions excl. connectors	441 x 500 x 88 mm (w x d x h)
RF output connector	N-type
Compliance	Compliant with all major directives and industrial standards