

# 2400W R-Series 13.56 MHz Complete RF Delivery System

T&C POWER CONVERSION



**AIT-600-24R**  
Automatic or Manual Tuner/ Matching Network, 13.56 MHz, Water and Air Cooled, up to 2400 W RF input at 50 Ohm Impedance.

- ⇒ 2 Front panel options: Blank or Manual Control display (shown above)
- ⇒ Type "N" Input and "HN" or 716DIN Output Connector, vacuum load and tuning capacitor.
- ⇒ Includes its own **built-in controller for AUTO operation**, capacitors positions Display Meter, manual operation Position Switches, Automatic / Manual Switch Selector.
- ⇒ Dimensions: 6.0"H x 12.0"W x 16.0"L
- ⇒ Weight: 5.5 kg, 12 lbs.
- ⇒ **Generator offers Master Controller (MC) for enhanced Generator/Tuner operation.**

**Generator Front Panel Display:**  
**Tuner Control Menu**  
(appears automatically with generator/tuner connection)

**A TUNE** - Tuner in AUTO operation  
**M TUNE** - Tuner in Manual control from the generator front panel. Selection by membrane switch "TUNE".  
**P TUNE** - Tuner in Programmable, PRESET mode. Offers up to 10 programmable preset points (ST00 to 9) that can be recalled later (REC0 to 9) for the process needs.



**AG 2413W**  
RF Power Source, 2400 Watts at 13.56 MHz, Water and Air Cooled, 50 Ohm Impedance.

- ⇒ Front panel display for complete Generator/Tuner control.
- ⇒ Generator controlled via Front Panel, REM remote PLC or Digital Port
- ⇒ AGC and Burst operation settings
- ⇒ Analog/Digital Communications Interface via SubD 25
- ⇒ RS 232 and USB digital communications.
- ⇒ 13.56 MHz, crystal controlled, built-in DDS
- ⇒ Dimensions: 5.25"H x 19.0"W x 12.6"L
- ⇒ Weight: 15.0 kg, 33 lbs.

**Generator Front Panel Display:**  
**Generator Mode Menu**

**SF** - Set Point for Forward Power  
**FP** - Actual Forward Power  
**LP** - Load Power  
**RP** - Reversed Power  
**12%** - Set for Burst operation  
**12W** - Set for AGC operation  
**MAIN** - main operation window  
**SVC** - service menu window (other window option)  
**REM** - controlled from external PLC



## Other components of the system:

### RF Cables for Plasma Systems

Cable: Tuner Output to Load Input, RG 393 or RG 400, "N" or "HN", 4'1.2m length or as needed.

Cable: Generator Output to Tuner Input, RG 400 "N", Length as needed.

### Communication Cables for Plasma Systems

HD15 Male to Male Molded 7.5, 5 or 2.5 Feet as needed, Generator to Tuner communications.

DB25 Male to Male Molded 6 Feet Straight Thru, Analogue/Digital Generator to PLC controller communications.

### Rack Mount Kit: One Pair for Plasma Systems

Rack Mount Kit: One Pair, Generators or Tuner, M4 x 10mm screws, 0.7mm pitch

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