



AG 1020

RF Generator & Amplifier



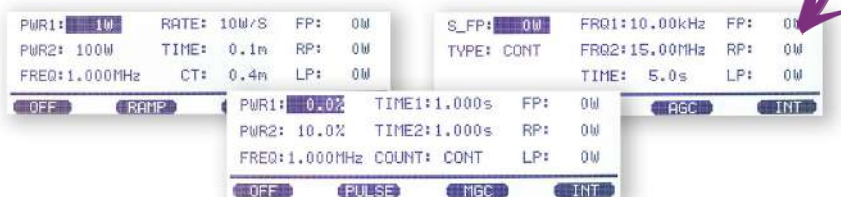
▲ AG 1020 (front and rear panels)



▲ Complete RF system (AG power source and T1K impedance matching transformer)



▲ Main and Settings Screens (with Ramp, Sweep, Pulse profiles)



Product Description

This is a **175 W, Broadband, Class A** RF power source, ideal for Industrial / Scientific / Medical applications.

Features

- 10kHz - 20 MHz broadband operation
- Linear output with low harmonic distortion
- Interfaces: Front Panel Display, Remote (Analog/Digital) Interface, RS-232, GUI software
- LCD display: Forward / Reflected / Load Power, Frequency, Internal Temperature, & More
- Operation: AGC and MGC Power Leveling, Pulse Operation, Sweep and Ramping Profiles
- External RF BNC input for amplifier operation
- Optimized matching with T Series impedance transformers (sold separately)
- Air cooled
- Stand-alone or/with mounting hardware (separate)
- 29 lbs. (13 kg)
- H 5.25" x W 10" x L 15"

Contact Us

For info or quote:
sales@tcpowerconversion.com
 (585) 482 - 5551
Website:
www.tcpowerconversion.com

Specifications & Order Options

Class Of Operation	Class A
Frequency Of Operation	10 kHz to 20 MHz
RF Power Output	0 – 175 W (continuous or pulsed operation)
Gain	52 dB (@ 50 W / 1 MHz)
Input and Output Impedance	50 Ω 2:1 max INPUT VSWR , 3:1 max OUTPUT VSWR
Output VSWR Protection	65W max reflected power limit set
Harmonics	Up to < -45 dBc (<-20 dBc for 3rd harmonic)
Spurious Output	-50 dBc
RF Output Settings & Control	<ol style="list-style-type: none"> 1. Front Panel soft-buttons and dial for manual control 2. RS232 port for GUI or other digital communication 3. DB-25 Analog and Digital I/O
Create operation profiles	Frequency sweep, pulse output, ramp, external burst
Scale	User selectable 1 - 10 V full power
Rear Panel Connections	RF Out (BNC, N, HN) External RF Input (BNC Female) A/D Interface (DB-25 Female) Digital Interface (RS-232 Female)
AC Input Current (RMS)	100 - 120 V ac, +/-10%, 50 - 60 Hz 200 - 240 V ac, +/-10% 50 - 60 Hz
Cooling	Forced air, temp controlled (10-40°C ambient, 80% humidity)
Dimensions	135mm x 254 mm x 385 mm (H 5.25" x W 10" x L 15")
Mounting	Table top, stand alone unit (Optional: rack mount kit)



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