

# AG 1010 spec sheet

Class Of Operation	Class AB
Frequency Of Operation	10 kHz to 10 MHz
RF Power Output	50Ω: 1000W (18 kHz - 7 MHz) Any load: up to 800W. See performance chart on the next page.
Gain	60 dB @ 1000W, 0.5 MHz ±1.0 dB at 500 W RF Output (0.018 to 8 MHz)
RF Input Drive for AGC	Recommended -20 dBm to 0 dBm for ±0.3 dB gain flatness
Input Drive Source	Signal or function generator, analog input capable of up to 0.9 Vp-p @ 50 Ω Input range: -30 to 0 dBm typical, +3 dBm maximum
Internal RF Source	DDS oscillator: 10 kHz to 10 MHz, 0.010 kHz resolution
Input and Output Impedance	50 Ω 2:1 max INPUT VSWR , 3:1 max OUTPUT VSWR
Output VSWR Protection	160 W max reflected power limit
Harmonic Level @ 800W	< -20 dBc (3rd, at 18 kHz...500 kHz) < -26 dBc (other, at 18 kHz...500 kHz)
Spurious Output	-50 dBc
RF Output Settings & Control	1. Front Panel soft-buttons and rotary encoder for manual control 2. RS232 port for GUI or other digital communication (rear panel) 3. SubD 25 Analog and Digital I/O (rear panel)
Scale	Factory setting: 1V=100W User selectable 1 - 10 V full power (GUI, Front Panel)
SWEEP operation	Frequency: 10 kHz to 10 MHz Time: 0.5 s - 99.9 s Settings and activation from GUI and Front Panel. Single or continuous.
PULSE operation	Pulse width: 1 ms - 9999 ms User settings via GUI and Front Panel (Period time is the totaling of Pulse1 & Pulse2) Discrete (1...99) or continuous
RAMP operation	Ramp rate: 1 W/s - 99 W/s User settings via GUI and Front Panel

## 2 SPECIFICATIONS

BURST - external	DC to > 200 kHz. User defined BURST scheme via SubD-25. See analog port description (p. 29) for more details.
Output Blanking	For functional interlock purposes only. Rear panel BNC connector and Analog port, Pin 14.
Rear Panel Connection Type	Input: BNC female Output: N female
AC Power Connection	Non-detachable power cord anchored with compression bushing followed by RFI filter, Back panel.
AC Input Current (RMS)	200 - 240 V AC, +/-10% 50 - 60 Hz, 10.0 A
Cooling	Forced air. Heatsink temperature monitored via Front Panel, RS232, and GUI interface.
Acoustic level	72dBa @ max fan speed.
Case	Designed to meet EMI and RFI shielding requirements steel chassis Chassis: Clear conductive finish. Front Panel: off-white Cover: black
Dimensions	178mm x 363mm x 388 mm ( H 7.0" x W 14.25" x L 15.25" )
Weight	25 kg, 54 lbs
Mounting	Table top, stand alone unit. Optional: Rack Mount Kit.
Environmental conditions	Temp: 10° to 40°C ambient Humidity: 80%

AG 1010 Performance Chart

