

AG 1024 spec sheet

Class of Operation	Class "AB"
Frequency of Operation	15 kHz to 3 MHz
RF Power Output	2000 W: 0.015 MHz to 1.5 MHz; up to 1500W: 1.5 MHz to 2 MHz; Up to 1000 W: 2 MHz to 3 MHz, 50 Ω load.
Gain	63 dB @ 2000W, 0.5 MHz ± 1.5 dB (15 kHz to 1.5 MHz)
RF Input Drive for AGC	Recommended -5 dBm to 0 dBm for ± 0.5 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: 15 kHz to 3 MHz, 0.010 kHz resolution
Input and Output Impedance	50 Ω 2:1 max INPUT VSWR , 3:1 max OUTPUT VSWR
Output VSWR Protection	400 W max reflected power limit
Harmonic Level @ 1500W	< -19 dBc (3rd) < -27 dBc (other)
Harmonic Level @ 1900W	< -19 dBc
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	Default Scale: 10V=2000W (rear panel port) User selectable 1 - 10 V full power (GUI, Front Panel)
SWEEP operation	Frequency: 15 kHz to 3 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 > 100 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 port.
Rear Panel Connection Type	BNC Female: RF In; N Female: RF Out
AC Power Connection	See manual for details
AC Input Current (RMS)	2/N/PE ~ 200-240 V, 35 A, 50-60 Hz 2/N/PE ~ 200 V, 42 A, 50-60 Hz 2/N/PE ~ 346-415 V, 16 A, 50-60 Hz
Cooling	Forced air, temperature controlled. Heatsink temperature monitored via Front Panel, RS232, and GUI interface.
Acoustic level	Temperature dependent; 78dBa @ max fan speed.
Case	Designed to meet EMI and RFI shielding requirements AL chassis. Chassis: steel, black conductive finish. Front Panel: off-white. Cover: black.
Dimensions	520mm x 533 mm x 470 mm (H 20.5" x W 21" x L 18.5")
Weight	71.4 kg, 157.5 lbs
Mounting	Stand alone unit.
Environmental conditions	Temp: 10° to 35°C ambient Humidity: 80%

