



AVA6013

6KW
13.56MHZ

PULSED RF GENERATOR WITH AUTO FREQUENCY TUNING





Model	AVA6013
Center Frequency	13.56 MHz
Tuning Range	± 10%
Load Impedance	50 Ohm
Max Forward Power	6000 Watt
Max Reflected Power	1500 W
Power Regulation	Forward power, load power, DC bias (process)
Power Accuracy	± 1.5% of setpoint, or ± 2W (whichever is greater)
Harmonics	≤ -40 dBc(50-Ohm load)
Spurious	≤ -45 dBc
Efficiency, AC to RF output	>65% (typical) @ 6kW
Pulsing	Dual level (digital or analog)
Pulse Synchronization	Pulse-In SMA(F), Pulse-Out SMA(F)
Minimum Pulse Width	10 µsec
Pulse PRF	100 Hz –10 kHz
Pulse Duty Cycle	1% -99%
Pulse Rise Time	< 4 µsec
Pulse Fall Time	< 0.2 µsec
Interface	RS232, 25 pin Analog
Interface Options	Ethernet, EtherCAT, Profibus and DeviceNet
Cooling	Water
Ambient Air Temperature	25°C ±10°C
Inlet Water Temperature	25°C ±5°C

THE AVA 6013 IS AVAILABLE IN TWO CONFIGURATIONS, STANDARD OR ADVANCED.

ANALOGIC IS DEDICATED TO CONTINUAL INNOVATION, BRINGING THE LATEST IN RESEARCH AND EXPERIENCE TO THE WORLD OF POWER AMPLIFIER DESIGN.

Specifications subject to change without notice



Min. Water Flow	~2.5 GPM
Weight	<33.7 Kg (<74.2 lbs)
Dimensions	483 mm (W) X 650 mm (D) X 131 mm (H)
Output Connector	DIN 7/16 (F)
AC Line	380-480 VAC 3- ϕ , 50/60 Hz, 30A
AC Connector	Harting Han-Modular

ADDITIONAL ADVANCED MODEL SPECIFICATIONS

CEX input signal level	4 –10 dBm (sinusoidal or square pulse)
CEX output signal level	9 dBm $\pm$ 2dB, typical
CEX output phase adjustment	-180° to 180° with 1° resolution
Pulsing	Multi-Level, Arbitrary waveform pulsing, Programable arbitrary waveform
Auto Frequency Tuning	<1 ms of tuning time , CW or Pulse
HALO Max FWD Power	200 Watt
HALO Accuracy	$\pm$ 1% or $\pm$ 1 Watt, whichever is greater
Smoke Detector	Integrated smoke detector

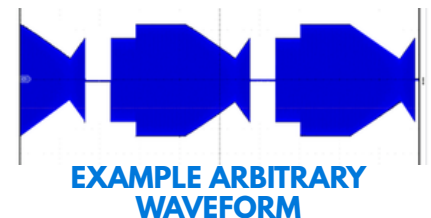
Accessories: Water Flow Sensor

Optional external sensor

Worst Case Forward Power into Mismatch

VSWR	Power
1.1:1	6000 W
2.0:1	2000 W
3.0:1	1200 W

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AVA 3013 FRONT VIEW



AVA 3013 BACK VIEW





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