

AURORA™ SERIES

2MHz, 13.56MHz, 27.12MHz, 40.68MHz, 60MHz

The Aurora series of Solid-State RF Generators operate from 2 to 60MHz, at power levels from 100W to 10kW, using advanced DSP control algorithms.



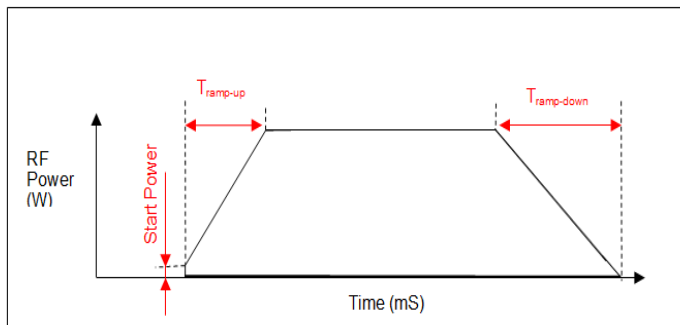
REDEFINING HIGH POWER™

FEATURES

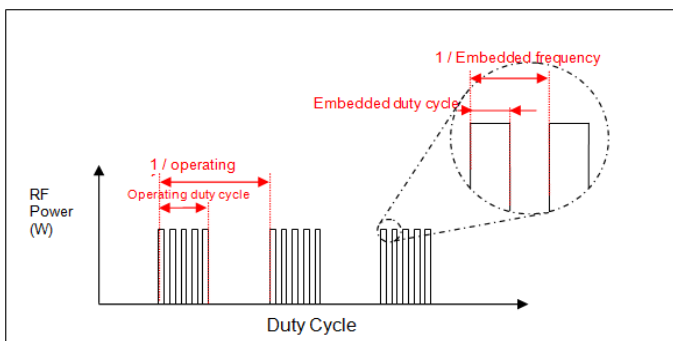
- Frequency Tuning
- ARC management
- Ramping
- Pulsing
 - Double Modulation

The Aurora series of Solid-State RF generators operate at a fixed frequency over the range of 2 to 60MHz. Our amplifiers are designed to operate into the extreme dynamic loads found in semiconductor applications.

With broad power and frequency range, the Aurora series provides a common generator platform to meet the ever changing needs of the semiconductor industry



Ramping



Double Modulation

SEMICONDUCTOR APPLICATIONS

- PECVD
- SPUTTERING
- DIELECTRIC and CONDUCTOR ETCH
- ICP

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AX10000

AURORA™ RF Generator Specifications

Power Output	10,000W
Frequency	any fixed frequency from 2 to 60 MHz
Power stability	+/- 0.5%
Power accuracy	< 2 %
Power repeatability	+/- 1% of setpoint into a 50-Ohm load
Input Power	208/400 VAC; 47 – 63Hz; 3 Phase
Interface connectors	Serial: DB-9; Analog DB-25
Harmonics	less than -40 dBc
Reflected power limit	20%
Pulsing	0 - 10kHz and Dual
Cooling	Water Cooled; 10GPM @ 40 deg. C
Dimensions	12.25H x 19W x 26D (in.); 31.1 x 48.3 x 66 (cm)
Weight	155 (lbs); 70.3 (kg)

AURORA Product Matrix				
	AX1000	AX2500	AX5000	AX10000
Power Output	1kW	2.5kW	5kW	10kW
Line Voltage	190-264 VAC, 47 - 63 Hz, 1P	190-264 VAC, 47 - 63 Hz, 1P	190-264 VAC, 47 - 63 Hz, 1P 380-440 VAC, 47 - 63 Hz, 3P	190-264 VAC, 47 - 63 Hz, 3P 380-440 VAC, 47 - 63 Hz, 3P
Input Power	1.5kVa	4.1kVa	8.3kVa	16.5kVa
Cooling	Air-cooled	Water: 5 GPM (18.92 LPM)	Water: 8 GPM (30.28 LPM)	Water: 10 GPM (37.85 LPM)
Size	7H x 9.5W x 19D (in.) 17.8 x 24.1 x 48.3 (cm)	7H x 19W x 24D (in.) 17.8 x 48.3 x 60.1 (cm)	8.75H x 19W x 26D (in.) 22.2 x 48.3 x 66 (cm)	12.25H x 19W x 26D (in.) 31.1 x 48.3 x 66 (cm)
Weight	35lbs. (15.8kg)	70lbs. (31.75kg)	95lbs. (43.1kg)	155lbs. (70.3kg)



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