

GENERAL DESCRIPTION

The 27.12 MHz, 2 kW RF Generator is a solid-state power source designed to provide highly stable and efficient RF energy for industrial and scientific applications. Built with advanced RF architecture, the system offers high power density, precise control, and repeatable performance, ensuring reliability in continuous operation. With complete protection functions and flexible configuration options, it is ideally suited for plasma processes, semiconductor fabrication, photovoltaic production, and medical applications.



This product comes with an industry leading warranty.

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency Range	BW	—	27.12	—	MHz
Frequency Stability	Fsb	—	±0.005	—	%
Output Power Range	Pr	1	—	2000	Watt
Power Regulation Range	Prg	1	—	100	%
Power Stability Accuracy	Psa	—	1W or 1%	—	Watt or %
Output Impedance	Zo	—	50Ω	—	Ohm
Reflective Protection Threshold	Rpt	—	400W	—	Watt
Mode of Operation	M	—	CW/PW	—	—
Harmonic	H	—	≤-45	—	dBc
Spurious	Spur	—	≤-50	—	dBc
Power Build-up Time	Tpb	—	≤50	—	ms
Efficiency	η	—	≥70	—	%
Power Supply	AVC	—	380Vac/208Vac 3Φ	—	Volt
Phase Synchronization	Cr	—	YES	—	—
Optional Advanced Features	CI	—	ML-Pulse/AF-Tuning/HALO/ARC	—	—

ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	10	—	+40	Deg. C
Storage Temperature	Tstg	-20	—	+27	Deg. C
Relative Humidity (non-condensing)	RH	5	—	95	%
Vibration/Shock	VI/SH	—	Normal Truck Transport	—	—

OTHER SPECIFICATIONS

Parameter	Symbol	Min	Typ	Note
Dimensions	Dim	—	19 inch 3U rack	—
In Connector	RF Conn	—	Y50DX1405ZJ10	Customizable
Out Connector	RF Conn	—	7/16-Female	Customizable
Weight	WT	—	20kg Max.	—
Cooling	Th	—	Fan-Cooling and Water-Cooling	—
Control interface	—	—	Analog and LAN/E-CAT/RS232	Customizable

Mechanical Drawings

