

Solid State Microwave Generator System

Model – HPG27.12M5KW

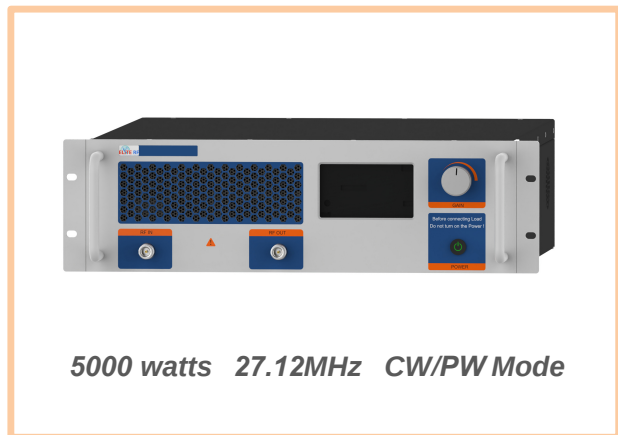
General Description:

The HPG27.12M5KW is a 27.12 MHz, 5 kW solid-state RF generator built for demanding industrial and research applications. It is robustly designed to give high RF power density and conversion efficiency alongside robust reliability, stability, and repeatability, with multiple functional configurations and high-precision power control. Comprehensive protection functions further support consistent, safe performance in production environments.

Like all Elite RF amplifiers, the product comes with an industry leading warranty.

Features

- High power density & efficiency
- Reliable, stable, and repeatable performance
- Multiple configuration options
- Precise power control
- Comprehensive protection features



ELECTRICAL SPECIFICATIONS

Parameter	Symbol	Min	Typ	Max	Unit
Frequency	BW		27.12		MHz
Frequency Stability	Fs		+/- 0.005		%
Output Power Range	Pr	1		5000	Watt
Power Regulation Range		1		100	%
Power Stability Accuracy			1		W or %
Output Impedance			50		Ohm
Reflective Protection Threshold			1000		Watt
Output Mode	M		CW/PW		Mode
Harmonic	H		≤-45		dBc
Spurious	Spur		≤-50		dBc
Power Build-up Time			≤50		ms
Efficiency	Eff		≥70		%
Power Supply			380Vac/208Vac 3Φ		-
Phase Synchronization			YES		-
Optional Advanced Features			ML-Pulse/AF-Tuning/HALO/ARC		-

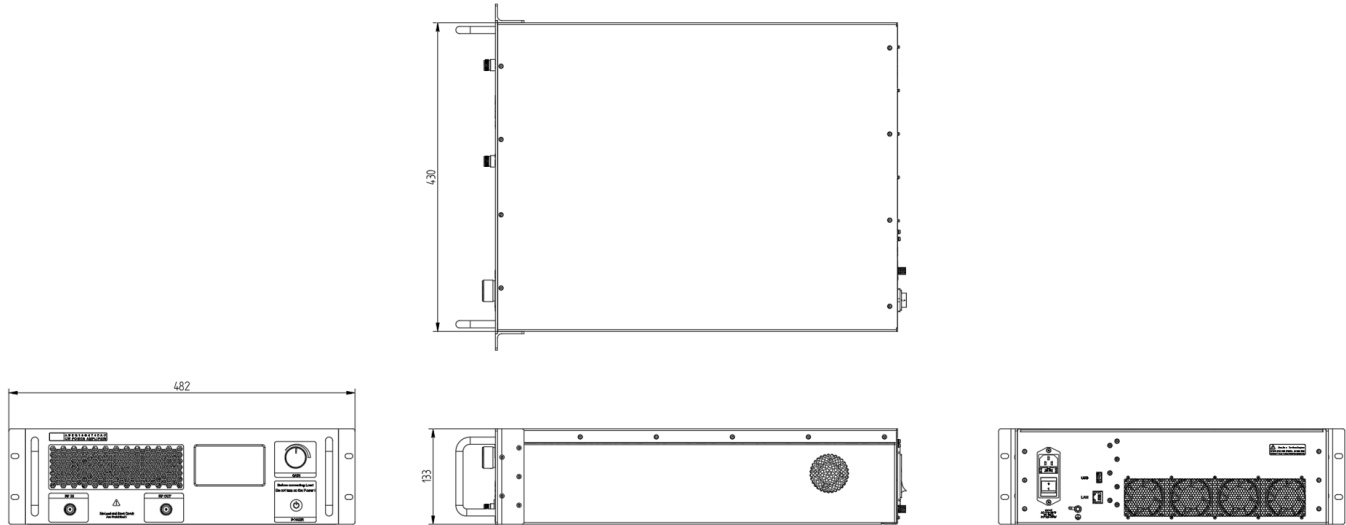
ENVIRONMENTAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	Tc	0		+40	Deg. C
Storage Temperature	Tstg	-20		+75	Deg. C
Relative Humidity	RH	5		95	%
Vibration/Shock	VI /SH		Normal Truck Transport		-

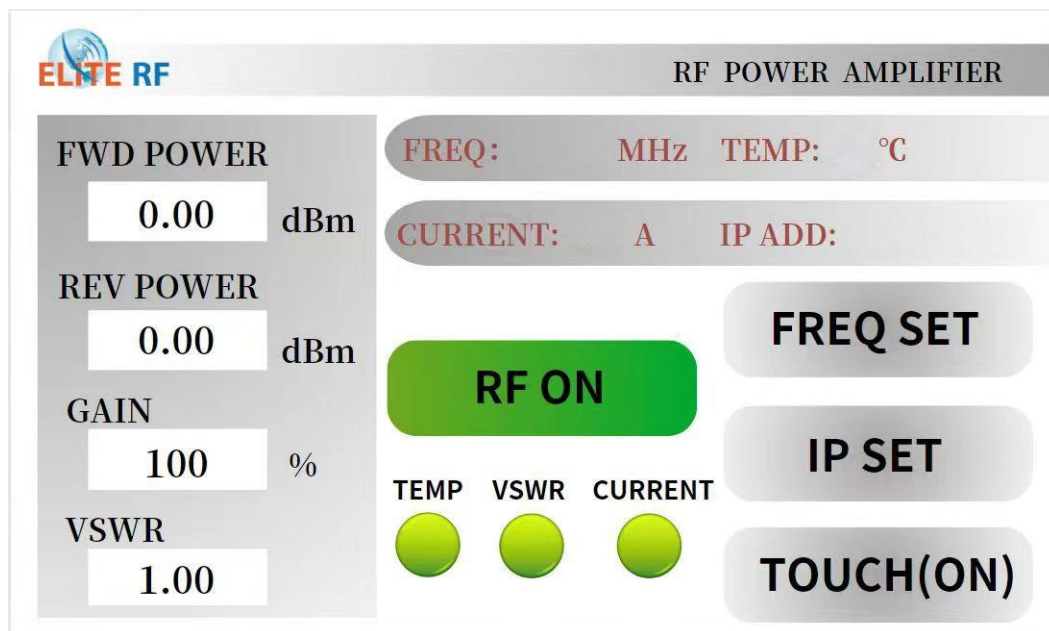
MECHANICAL CHARACTERISTICS

Parameter	Symbol	Min	Typ	Max	Unit
Dimensions	Dim		3U		Rack Unit
Weight	Wt.			20	kg
Connectors In/Out	RF Conn		(Y50DX1405ZJ10) / (7/16-Female)		-
Cooling	Th		Fan Cooling and Water-Cooling		-
Control interface			Analog and LAN/E-CAT/RS232		-

Mechanical Drawings



Front Panel Display



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Rev2 01/20/2025:
Specifications subject to change, consult
sales for latest information