

Product Specification: 13.56MHz generator



easel technologies' 13.56MHz generators are designed to cope with the harsh electrical environment found in plasma and materials processing applications. The power amplifier is conservatively rated and has unique design features to ensure stability into dynamically changing loads, such as those experienced during automatic load matching after plasma ignition. These features combine to deliver reliable performance over a wide range of load conditions. This can help to avoid the often encountered variations in performance, or stability, which can occur with only small changes to the conditions in the processing chamber.

Housed in an industry standard 3U case with air cooling it operates from standard single phase ac supply. The simple interface aides integration with an external control system.

easel technologies can assist you in integrating the generator and can provide additional sub-systems and components to ensure reliable, high performance operation.

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RF power solutions for industry and science

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Headline specifications are listed below. More details are available on request from info@easeltechnologies.co.uk. easel technologies' products are highly modular and can be configured to meet your specific requirements, contact the company for more details.

Case: industry standard 3U. Overall dimensions, 483 x 133 x 452mm, (width x height x depth). Integral fan air cooling.

Control interface: 25-way D-type connector.

Power supply: 90-270 Vac, 47 to 440Hz. IEC connector.

Interlock: a safety interlock is provided to enable/disable the main power supply.

RF output impedance: 50 Ω , N Type connector.

RF power output: standard options have a maximum output power of 350W or 650W. If the generator is being used to replace an existing unit it can be calibrated to be a direct replacement, contact the company to discuss your requirements. The output is adjusted from 3W to maximum via a 0-10V analogue voltage and is enabled by a digital signal. Signals indicating forward and reverse power are provided and the generator automatically monitors the reverse power and will limit the output when it exceeds a preset threshold.

RF power control: selectable forward or load control.

Frequency: .13.56MHz. Stability +/- 0.005% or 50ppm.

CEX input and output: BNC connectors, input to allow control by an external oscillator, and output to synchronise other equipment.

Front panel indicators: four LED indicators give a simple visual indication of the generator's status, supply power enabled, RF output on, RF limit threshold exceeded, thermal overload.

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