

# Product Specification: Low frequency generator



easel technologies' low frequency generator is versatile, efficient and robust. It provides up to 300W over the frequency range 90kHz to 450kHz and is designed to cope with high VSWR loads typical of demanding applications such as plasma processing.

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. Frequency adjustment can be made manually or remotely and is retained in non-volatile memory when the power is removed.

It can be used in a variety of applications either as a standalone generator or in conjunction with another supply, for example, dual frequency plasma deposition.

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

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**easeltechnologies**

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](mailto: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  $\Omega$ , BNC connector.

**RF power output:** 3-300W at all frequencies. Adjustable via a 0-10V analogue voltage and 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:** adjustable from 90kHz to 450kHz and stored in non-volatile memory. Control is either manually, via up/down switches accessible through the rear panel, or remotely via a simple two-wire digital interface. Frequency monitoring is provided by a TTL level squarewave and a DC level proportional to frequency.

**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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