

Product Specification:

Low frequency current balance network

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Advanced materials processing machines often have multiple electrodes and it can be convenient to use a single generator to supply the power.

The electrodes can be simply connected together in parallel but this can lead to an imbalance in the currents flowing to each electrode.

Using easel technologies' current balance network, specifically designed for low frequency high power applications, ensures equal currents in each electrode aiding uniformity and reproducibility.

Working with an input power of up to 15kW the unit is available for use with up to eight electrodes with a common ground connection.

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RF power solutions for industry and science

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Headline specification 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: 19" rack mount, 5U. Overall dimensions: 430 x 220 x 435mm, (width x height x depth). Weight 14.5 Kg

Connectors: LF Input, terminal block 2 x #8-32 binder head, Phil-Slot screws. LF Outputs, terminal block 1 x #8-32 binder head, Phil-Slot screws. Ground connections provided adjacent to input and output terminals. Strain relief glands provided for each input, output and the fan supply.

Frequency range: 20 to 100 kHz.

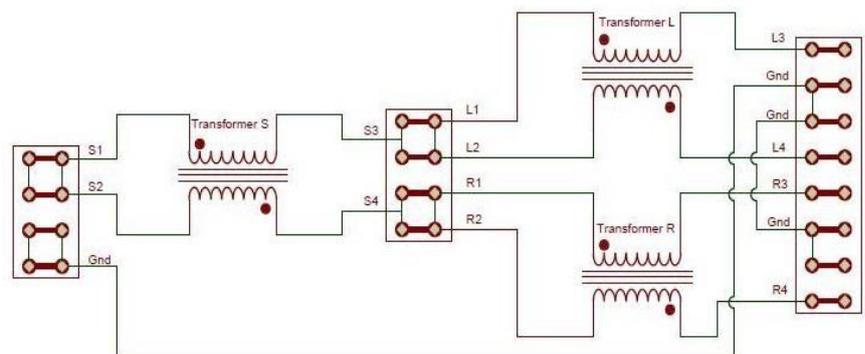
Fan supply: Voltage 24VDC. Current 1.1A.

Output Power Specifications: 15kW. Output voltage 0-900Vrms max. Output current (per individual load) 15A.
(Exact output voltage and current will depend on load impedance)

Impedance ratio: 4:1 for 4 electrodes (Output Z : Input Z) and 8:1 for 8 electrodes.

Environmental Specifications: Ambient operating temperature 0-40C. Cooling air temperature 0 – 40C. Maximum value of average temperature over a 24-hour period: 35°C. Relative humidity 15% to 85% no condensing or icing.

Typical layout: shown below, with 4 electrodes and a 4:1 impedance ratio.



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