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LEANGEN-2450M-250-E 2450MHz 250W Solid-State Generator

LEANGEN-2450M-250-E is a compact and light-weight 2450MHz 250W Solid-State Generator conceived to provide a flexible and portable tool for laboratory tests, as required by worldwide research groups that are progressively investing strong efforts into *Solid-State Microwave* technology.

LEANGEN-2450M-250-E is equipped with a 4.3" capacitive touch panel driven by an embedded system allowing user-friendly real-time control and monitoring of all the advanced features of the 250W microwave generator.

The equipment embeds our OEM 2450MHz 250W solid-state generator module, completed by a highly reliable AC-DC power supply, a compact and efficient cooling unit and a powerful real-time control system that hosts the graphic user interface.

The unit allows the operator to easily configure *Continuous* and *Pulsed* operating modes by setting predefined radiation intervals and accurate power levels (1W step) at the desired operating frequency in the 2400-2500MHz range.

An advanced **self-regulating feature** is available to *automatically and dynamically* adapt the output power level to the amount that the load is capable to absorb during the radiation time.

A very useful database contains the history of all the events and alarm conditions occurred during the generator operation and, thanks to the available IP connection, the software can always be automatically updated to the latest release generated by LEANFA's engineering department.

An optional serial control port on the rear panel can be connected to a PC for a comfortable remote access from your laptop or desktop PC for easy integration within a comprehensive laboratory management station.

LEANGEN-2450M-250-E is very useful for those who want to appreciate the flexibility of solid-state technology in a simple and immediate way and to easily experiment with plenty of applications as solid-state cooking, microwave chemistry, plasma lighting, organic tissue ablation and automotive ignition.



QUICK OVERVIEW

Very compact and portable

Direct AC power supply

Integrated cooling unit

Friendly touch-panel user interface

Fully-programmable CW and Pulsed operating modes

2400-2500MHz frequency range

N female coaxial output

Real-time measurement of reflected power

Highly tolerant to strong load mismatch conditions

Self-regulating function for variable loads automatic management

Automatic on-line software update

Optional serial connection to external PC for control & monitoring

LEangen-2450M-250-E 2450MHz 250W Solid-State Generator

Technical Specifications

Output Power
Power Modes
Output Connector
Technology
Output RF Isolation
Operating Frequency
Advanced Mode
Power Supply
Power Efficiency
Output Power Measurement
Reflected Power Measurement
Output Protection
Control&Monitoring
Spurious Emissions
Data Ports
Cooling
Size
Weight

0-250W CW @2450MHz
CW and Pulsed modes with user-enabled self-regulating function
N female, 50Ω
Fully Solid-State: dual-stage LDMOS
In-built circulator with integrated dummy load
2400-2500MHz step 2MHz
User-enabled self-regulating function
80-275Vac
50%
Real-time
Real-time, better than 5% full-scale accuracy
Hardware Protection against 100% load mismatch
Interactive Graphic Interface on 4.3" Capacitive Touch Panel
<50dBc
RS232 (optional remote control), Ethernet (software update)
Integrated forced-air cooling unit
240x273x89mm
240x273x89mm 4kg





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