

Saving Lives with Precision Microwave Ablation

Effective tumour ablation and therapeutic heating demand reliable power delivery, accurate frequency control, and consistent performance.

Our solid-state microwave generators provide clean, stable energy at 2.45 GHz, enabling predictable treatment zones, improved safety, and enhanced system integration for next-generation healthcare solutions.

Proven Advantages

- 
Consistent Ablation Zones
 Precise power and frequency control support predictable clinical outcomes.
- 
Enhanced Safety & Reliability
 Integrated protections ensure stable operation and patient safety.
- 
Designed for Easy Integration
 Compact solid-state design fits seamlessly into advanced medical platforms.



Ideal applications

- 
Targeted Tumour Treatment
 Delivers controlled energy at depth, enabling predictable ablation zones and consistent clinical outcomes.
- 
Controlled Tissue Heating
 Supports targeted heating for pain management, recovery, and specialised medical therapies.
- 
Cosmetic & Skin Therapies
 Enhances skin rejuvenation, fat reduction, and non-invasive treatments with reliable power delivery.
- 
Medical R&D Innovation
 Provides a flexible, controllable platform for exploring new treatment modalities and clinical solutions.



KU SG 2.45 - 250 D

Microwave Power Generator

- ✓ Suited for microwave ablation & heating
- ✓ Precise power & frequency control – adjustable in 1 W steps with sweep/pulse modes.
- ✓ 2.45 GHz / 250 W ISM-band source – ideal for controlled microwave energy delivery

Frequency range	2400 ... 2500 MHz
Output power	0 ... 250 W
Frequency accuracy	+/- 3 ppm
Power steps	1 Watt
Pulsewidth	25 ... 99990 μ s
Pulsperiod	26 ... 99999 μ s
Protection functions	VSWR (Isolator), Over Temperature, OVP, UVP, OCP
Output / impedance	0 ... 250 W at 50 Ohms
Supply Voltage	32 V DC
Current consumption	typ. 16 A, max. 18 A (@ 250 W)
Dimensions	147 x 111 x 25 mm
Weight	900 g (typ.)
Temperature range	-20 ... 60 °C



KU SG 2.45-450 A

Microwave Power Generator

- ✓ Suitable for integration into plasma chambers
- ✓ Precise power and frequency control
- ✓ Operates as a standalone generator or part of a power-combined system

Frequency range	2400 ... 2500 MHz
Output power	0 ... 450 W
Power steps	1 W
Frequency steps	100 kHz (10 kHz optional)
Output connector	N-female, 50 Ω
Control input	Serial Interface, 3.3 V UART interface
	Analog interface 0 V ... 10 V External I2C bus extensions
Supply Voltage	32V
Current consumption	max. 26 A @ 450 W
Dimensions	180 mm x 65 mm x 40 mm
Weight	typ. 1500 g



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Mit Stolz hergestellt in Deutschland



www.kuhne.alaris.tech