IEC 60335-2-6
High Frequency Spark Generator

Model KP-HF3506 | Pyrolytic Self-Cleaning Oven Safety Testing

Designed as a dedicated spark ignition source for IEC 60335-2-6 pyrolytic oven test applications, with a specified 3 mm spark length and at least 0.5 J energy per spark.

APPLICABLE STANDARD	DECLARED CLAUSE	SPARK LENGTH	ENERGY PER SPARK
IEC 60335-2-6	**22.111**	**3 mm**	**At least 0.5 J**

Product Overview

Pyrolytic self-cleaning ovens operate at elevated temperatures to decompose food residues inside the oven cavity. IEC 60335-2-6 includes test requirements intended to assess whether gases or flame-related hazards can occur during the cleaning process.

The KP-HF3506 provides the controlled spark source used in this assessment. It is intended for the IEC 60335-2-6 pyrolytic oven test application rather than general-purpose arc generation. The supplied product specification identifies Clause 22.111 as the declared test application.

Typical Test Object

Pyrolytic self-cleaning ovens

Typical Users

Appliance manufacturers, electrical safety laboratories, certification laboratories and third-party test organizations

Technical Specifications

KP-HF3506 High Frequency Spark Generator

Parameter	Specification
Model	KP-HF3506
Applicable standard	IEC 60335-2-6
Declared test clause	22.111
Spark length	3 mm
Energy per spark	At least 0.5 J
Spark generation mode	Bipolar output
Output voltage	Above 20 kV
Test time setting	0-30 s
Input power supply	220 V, 50 Hz
Equipment dimensions	250 x 300 x 150 mm (W x D x H)

Test Application and Operating Principle

1. Prepare the pyrolytic self-cleaning oven and operate it according to the applicable IEC 60335-2-6 procedure.
2. Position the spark electrodes at the test location required by the applicable clause.
3. Use the KP-HF3506 as the external ignition source and apply spark bursts at the required stages of the cleaning cycle.
4. Observe the oven for the ignition or flame behavior specified by the test procedure.

Standard Compliance and Test Notes

The KP-HF3506 is designed for the spark ignition application identified in IEC 60335-2-6 Clause 22.111. The supplied product data specifies a 3 mm spark length and at least 0.5 J energy per spark.

The generator provides the ignition source only. Oven operation, test materials, temperature measurement, electrode positioning and acceptance criteria remain part of the complete IEC test procedure. If Clause 22.110 or another arrangement is required, confirm the electrode setup before quotation.

Configuration and Ordering Information

Standard / Clause: Confirm the applicable IEC 60335-2-6 edition and required clause.

Power Supply: Standard input: 220 V, 50 Hz.

Electrode Setup: Confirm holders, positioning parts or other test accessories required.

Documentation: Specify verification, calibration-support or document requirements.