Industrial Test Equipment

IEC 62368-1 Clause 9.6 Wireless Power Receiver

KP-368W Product Datasheet

Receiver/load simulation device for wireless power transmitter foreign object detection and temperature rise testing. Designed for repeatable IEC 62368-1 Clause 9.6 related laboratory evaluation.

15 W / 10 W | IEC 62368-1 | FOD

Standard
IEC 62368-1 Clause 9.6

Test Object
Wireless power transmitters / chargers

Function
Receiver/load simulation

Power Levels
15 W / 10 W / 7.5 W / 5 W

Specifications subject to final configuration and project confirmation.

Product Overview and Test Architecture

The KP-368W is used in IEC 62368-1 Clause 9.6 test arrangements for wireless power transmitters. It serves as the receiver and load-side equipment, helping laboratories evaluate foreign object heating behavior under different receiver positions and power levels.

Standard-oriented test scope

Designed for IEC 62368-1 Clause 9.6 related wireless power transmitter FOD temperature rise testing.

Receiver/load simulation

Creates receiver-side operating conditions for checking transmitter behavior under defined test arrangements.

Power level selection

Supports 15 W, 10 W, 7.5 W, 5 W and external load conditions depending on project needs.

Temperature rise evaluation support

Used with foreign objects, spacers and temperature measurement accessories to support Clause 9.6 testing.

KP-368W

Wireless Power Receiver

- Receiver/load simulation
- QC2.0 / QC3.0
- FOD temperature rise
- External loads

Functional Test Flow

1. Set transmitter
2. Place FOD object
3. Set receiver position
4. Apply load/power
5. Monitor temperature

Detailed Technical Specifications

The following parameters summarize the KP-368W catalogue-level configuration. Final setup and documentation should be reviewed according to the applicable IEC 62368-1 edition, transmitter power rating and laboratory procedure.

Standard and Test Scope

Product model	KP-368W
Applicable standard	IEC 62368-1 Edition 3, Clause 9.6
Test object	Wireless power transmitters / wireless chargers
Test purpose	FOD temperature rise evaluation
Equipment function	Wireless receiver and load simulator

Receiver Configuration

Recognition mode	QC2.0 / QC3.0
Power levels	15 W / 10 W / 7.5 W / 5 W / external loads
Temperature range	-10 deg C to 100 deg C
Time range	0-99H59M59S
Weight	118 g

Electrical Measurement and Load Parameters

Input voltage	4.5-9 V
Voltage resolution	0.01 V
Voltage accuracy	+/-(0.2% + 1 digit)
Input current	0-3 A
Current resolution	0.001 A
Current accuracy	+/-(0.8% + 3 digits)
Impedance range	1.5 Ohm-9999.9 Ohm
Frequency	2 Hz

Technical Note

KP-368W should be selected as part of a complete Clause 9.6 test arrangement. Metallic foreign objects, spacers, thermocouples, temperature logger and documentation requirements should be confirmed before quotation. Do not treat this receiver/load device as the wireless power transmitter DUT.

FOD Test Setup and Method

IEC 62368-1 Clause 9.6 related testing evaluates wireless power transmitter behavior with metallic foreign objects, receiver arrangements and temperature measurement. The complete setup depends on the product under test and laboratory procedure.

Typical Setup Components

- Wireless power transmitter (DUT)
- KP-368W receiver/load device
- Steel disc / aluminium ring / aluminium foil
- 2 mm and 5 mm spacing accessories
- Thermocouple or temperature logger

Test Method Notes

- Confirm standard edition and procedure.
- Select receiver arrangement and spacing.
- Monitor foreign object temperature rise.

1 **Prepare DUT**

2 **Place FOD object**

3 **Set receiver position**

4 **Apply load condition**

5 **Record temperature**

Receiver Functions and Verification Support

The KP-368W supports receiver-side simulation and power/load selection for wireless power transmitter evaluation. Temperature measurement and foreign object accessories should be selected according to the laboratory test plan.

Receiver and Load Functions

- Load simulation: Creates receiver-side operating conditions.
- Power level selection: Supports 5 W, 7.5 W, 10 W, 15 W and external load conditions.
- QC recognition: Supports QC2.0 / QC3.0 recognition mode.

Verification Guidance

Confirm transmitter rated power, receiver position, foreign object type, temperature measurement method and required documentation before formal testing or quotation.

Do not use as DUT

KP-368W simulates receiver/load conditions; the wireless transmitter is the DUT.

Temperature records

Use suitable thermocouple, thermometer or data logger according to the test plan.

Accessory confirmation

Foreign objects and spacers may be required as separate setup items.

Applications, Operation Notes and Product Distinction

Typical Users

Certification laboratories
Wireless charger manufacturers
Safety test engineers
R&D and compliance teams

Operation Notes

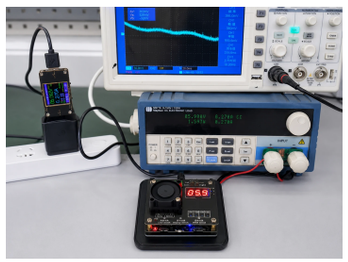
Confirm applicable clause and laboratory procedure.
Use the device in a controlled test setup.
Confirm wiring, receiver position and load condition before test.

Configuration and Documentation

Confirm required power level and receiver arrangement.
Confirm metallic foreign objects and temperature measurement.
Request product specification or calibration-related support if needed.

Product Distinction

KP-368W: receiver/load simulation device.
Foreign metallic objects: conductive heating samples.
Spacers: receiver distance control.
Temperature logger: measurement record support.



Laboratory Application

The KP-368W can be used with test instruments during R&D; verification, FOD function adjustment and pre-compliance checks for wireless power transmitter safety evaluation.

Technical Inquiry and Expert Support

KingPo supplies the KP-368W Wireless Power Receiver for IEC 62368-1 Clause 9.6 FOD temperature rise testing. Our engineering team can review your standard edition, transmitter power rating, receiver arrangement, foreign object requirement and temperature measurement method.

Please Provide the Following Information

- Applicable standard:
  IEC 62368-1 Clause 9.6 or internal procedure
- Receiver arrangement:
  No receiver, contact, 2 mm or 5 mm spacing
- Test object:
  Wireless power transmitter or wireless charger
- Foreign object:
  Steel disc, aluminium ring, aluminium foil or specified object
- Test requirement:
  FOD temperature rise evaluation
- Temperature measurement:
  Thermocouple, thermometer, data logger or existing lab system
- Power level:
  15 W, 10 W, 7.5 W, 5 W or external load
- Documentation:
  Product specification, inspection record or calibration-related support

Product Page

Scan QR or visit dgkingpo.com for the online product page.

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