

# R&S<sup>®</sup>ZZA-GE23

## 19 Inch Rack Adapter 2HU

### Assembly Instruction, English



5601565502



**ROHDE & SCHWARZ**

Assembly Instruction, English

Version 01

The assembly instruction describes the installation of instruments in a 19 inch rack using the R&S ZZA-GE23 Rack Adapter 2HU (order no. 5601.4059.02).

The following instruments are supported:

- R&S®NGP802 Two-channel 32V/20A Power Supply 400 W (5601.4007.05)
- R&S®NGP822 Two-channel 64V/10A Power Supply 400 W (5601.4007.06)
- R&S®NGP804 Four-channel 32V/20A Power Supply 800 W (5601.4007.02)
- R&S®NGP824 Four-channel 64V/10A Power Supply 800 W (5601.4007.03)
- R&S®NGP814 Four-channel 32V/20A & 64V/10A Power Supply 800 W (5601.4007.04)

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Subject to change – Data without tolerance limits is not binding.

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# Safety Instructions

## Instrucciones de seguridad

## Sicherheitshinweise

## Consignes de sécurité

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### **WARNING**

#### **Risk of injury and instrument damage**

The instrument must be used in an appropriate manner to prevent electric shock, fire, personal injury or instrument damage.

- Do not open the instrument casing.
  - Read and observe the "Basic Safety Instructions" delivered as printed brochure with the instrument.
  - Read and observe the safety instructions in the following sections. Note that the data sheet may specify additional operating conditions.
  - Keep the "Basic Safety Instructions" and the product documentation in a safe place and pass them on to the subsequent users.
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### **ADVERTENCIA**

#### **Riesgo de lesiones y daños en el instrumento**

El instrumento se debe usar de manera adecuada para prevenir descargas eléctricas, incendios, lesiones o daños materiales.

- No abrir la carcasa del instrumento.
  - Lea y cumpla las "Instrucciones de seguridad elementales" suministradas con el instrumento como folleto impreso.
  - Lea y cumpla las instrucciones de seguridad incluidas en las siguientes secciones. Se debe tener en cuenta que las especificaciones técnicas pueden contener condiciones adicionales para su uso.
  - Guarde bien las instrucciones de seguridad elementales, así como la documentación del producto, y entréguelas a usuarios posteriores.
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**⚠️ WARNUNG****Gefahr von Verletzungen und Schäden am Gerät**

Betreiben Sie das Gerät immer ordnungsgemäß, um elektrischen Schlag, Brand, Verletzungen von Personen oder Geräteschäden zu verhindern.

- Öffnen Sie das Gerätegehäuse nicht.
  - Lesen und beachten Sie die "Grundlegenden Sicherheitshinweise", die als gedruckte Broschüre dem Gerät beiliegen.
  - Lesen und beachten Sie die Sicherheitshinweise in den folgenden Abschnitten; möglicherweise enthält das Datenblatt weitere Hinweise zu speziellen Betriebsbedingungen.
  - Bewahren Sie die "Grundlegenden Sicherheitshinweise" und die Produktdokumentation gut auf und geben Sie diese an weitere Benutzer des Produkts weiter.
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**⚠️ AVERTISSEMENT****Risque de blessures et d'endommagement de l'appareil**

L'appareil doit être utilisé conformément aux prescriptions afin d'éviter les électrocutions, incendies, dommages corporels et matériels.

- N'ouvrez pas le boîtier de l'appareil.
  - Lisez et respectez les "consignes de sécurité fondamentales" fournies avec l'appareil sous forme de brochure imprimée.
  - Lisez et respectez les instructions de sécurité dans les sections suivantes. Il ne faut pas oublier que la fiche technique peut indiquer des conditions d'exploitation supplémentaires.
  - Gardez les consignes de sécurité fondamentales et la documentation produit dans un lieu sûr et transmettez ces documents aux autres utilisateurs.
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# Customer Support

## Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

## Contact information

Contact our customer support center at [www.rohde-schwarz.com/support](http://www.rohde-schwarz.com/support), or follow this QR code:



*QR code to the Rohde & Schwarz support page*

# 1 Description

The R&S ZZA-GE23 Rack Adapter 2HU is designed for installing units of the supported instruments in 19 inch systems. The dimensions of the rackmount kits are designed according to the 19 inch standard DIN 60297-3-101.

For the installation of the racks in 19 inch cabinets, rails must be used.

The R&S ZZA-GE23 Rack Adapter 2HU is supplied without front handles. However, it can be retrofitted at any time with handles. Thus, you can define the look of the handles individually according to your wishes. You can use all standard handle bars with 55 mm spacing and M4 thread. The outer dimensions should not exceed 65 mm. For the assembly of the handles, use M4x10 countersunk screws.

Suitable examples:

- Ganter handle GN 425.6-8-55-EL (available from Ganter)
- Rohde & Schwarz handle series ST, ST 08.055.22 (available from Rohde & Schwarz, Ettinger, .....

All necessary screws for mounting are included.



Shipping of instruments built in to the rack is not permitted.

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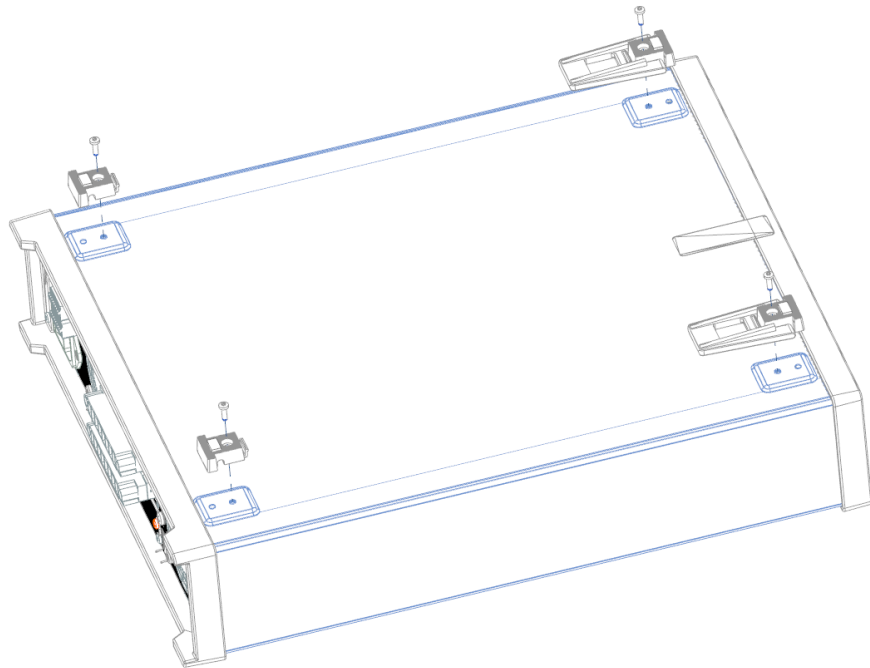
## 2 Prepare the Unit for Installation

Before the instrument can be installed in the rack, the following are required:

- Remove the appliance feet on the instrument
- Dismantle the upper and lower covers from the rear bracket

Remove appliance feet.

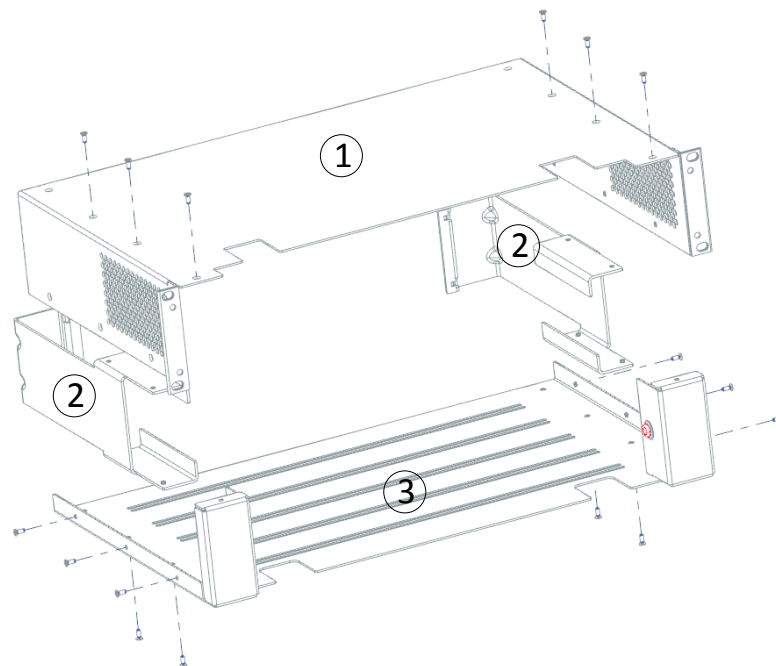
1. Remove the screws on the bottom.



2. Remove the feet.

Dismantle the rack adapter.

1. Loosen the screws on the rack adapter.



- 1 = R&S ZZA-GE23 subrack, upper cover
- 2 = R&S ZZA-GE23 subrack, rear bracket
- 3 = R&S ZZA-GE23 subrack, lower cover

2. Dismantle the upper and lower covers from the rear bracket.



Keep feet with screws well, if the instrument is to be operated again as a tabletop unit.



## 3 Install the Unit in the 19 Inch Rack

### NOTICE

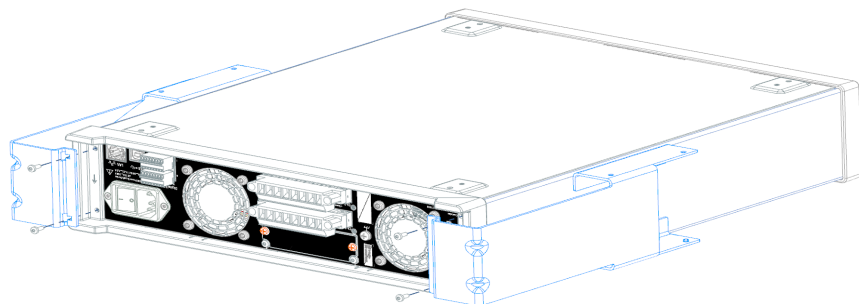
#### Risk of instrument damage due to insufficient airflow in a rack

If the instrument is run with insufficient airflow for a longer period, the instrument overheats, which can disturb the operation or cause the instrument to shut down.

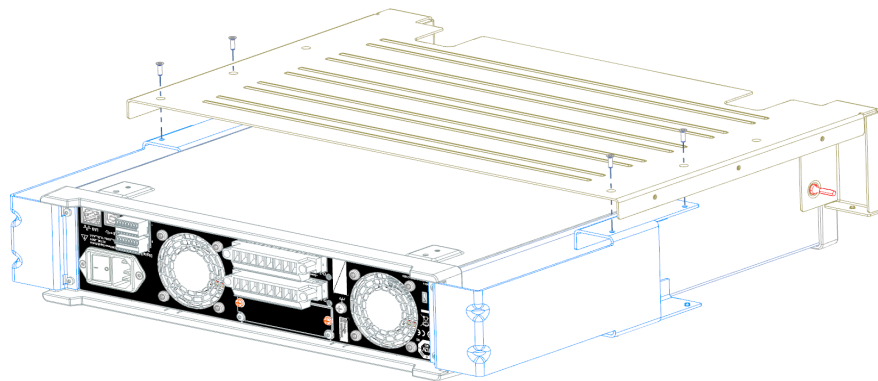
To avoid overheating, make sure that the air can circulate through the instruments. Reserve enough space on the outsides (at least 10 cm) to ensure sufficient cooling.

To install the instrument:

1. Place the instrument with the bottom feet position facing up.
2. Loosen the four screws at the rear panel partially and slide the two rear brackets over the screws position.
3. Tighten the four screws back partially so that mounting of the lower cover can be adjusted for step 5.



4. Mount the lower cover over the two rear brackets and tighten the four screws on the lower cover.
5. Tighten the four screws back at the two rear brackets.



6. Place the instrument with the bottom feet position facing down.
7. Mount the upper cover over the instrument and tighten the six screws on both top and side of the upper cover.

