

R&S® HMP Series Power Supply

Up to four channels in a single instrument



The perfect choice for

Engineering lab

Production testing

Maintenance & repair

General purpose

Key specifications

| | |
|---|--|
| No. of channels | 2, 3 or 4 |
| Max. voltage | 32 V |
| Max. current | 5 A or 10 A |
| Max. power | 188 W or 384 W |
| Overvoltage protection | adjustable for each channel |
| Overcurrent protection, electronic fuse | adjustable for each channel, including FuseLink technology |
| Arbitrary V/I curves | EasyArb function |

Key features

R&S® HMP power supplies are primarily designed for industrial use – for production environments as well as for development labs. These rugged instruments offer high efficiency with low residual ripple and many protection functions.

- Four models:
 - 2 or 3 channels with 188 W total output power,
 - 3 or 4 channels with 384 W total output power
- Galvanically isolated, floating outputs with overload and short-circuit protection
- Remote sensing eliminates voltage drops on the load leads
- Comfortable programming features and 19" rack adapters ensure perfect integration in production environments.

| Features | Your benefit |
|---|---|
| Up to 4 channels in a single compact box | Flexible configuration for any specific application; including sense lines for each channel to compensate voltage drops over the supply leads |
| Channels galvanically isolated and floating | Serial operation with up to 128 V or parallel operation with up to 40 A |
| Overcurrent protection (electronic fuse) and overvoltage protection | To safeguard instrument and DUT. The FuseLink function switches off all selected channels when one reaches its current limit |
| Easily programmable time/voltage or time/current curves | To vary voltage or current during a test sequence; can be programmed manually via the user interface or via the external interfaces |

► For more information, visit www.rohde-schwarz.com/catalog/HMP

Connections on front and rear panels



Connections for all channels – including sense – are also provided on the rear panel

Intuitive to use - color coding and operating states

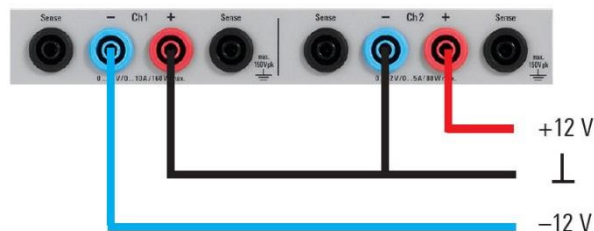
All basic R&S®HMP power supply functions can be operated directly via keys on the front panel. It is only necessary to use the menu level for special functions that are needed less frequently. All settings and operating conditions, including the output power and the status of the protection functions, are shown on the display and indicated by the colors of the illuminated channel keys.

The colors of the illuminated keys indicate the different operating conditions:

- Active channel in constant voltage mode: green
- Active channel in constant current mode: red
- Channel in setting mode: blue



All channels galvanically isolated and floating



The circuitry of each single channel is completely isolated from the others; there is no connection to chassis ground. This makes it easy to combine the channels to drive balanced circuitries that might need +12 V/-12 V, for example, and avoids ground problems in complex DUTs.

Ordering information

Base units

| Model | R&S®HMP2020 | R&S®HMP2030 | R&S®HMP4030 | R&S®HMP4040 |
|----------------------------------|---------------------------------------|-------------|-------------|-------------|
| Channels | 2 | 3 | 3 | 4 |
| Output voltage per channel | 0 V to 32 V | | | |
| Output current per channel | Ch 1: 0 A to 10 A Ch 2: 0 A to 5 A | 0 A to 5 A | 0 A to 10 A | |
| Total output power | 188 W | | 384 W | |
| Maximum output power per channel | Ch 1: 160 W Ch 2: 80 W | 80 W | 160 W | |

Interface options and system components

| Designation | Type |
|---|-----------|
| Dual interface RS-232/USB | R&S®HO720 |
| IEEE-488 (GPIB) interface | R&S®HO740 |
| 19" rack adapter, 2 HU (for R&S®HMP2020/HMP2030) | R&S®HZ42 |
| 19" rack adapter, 4 HU (for R&S®HMP4030/HMP4040) | R&S®HQP91 |

Included accessories and interfaces:

All models include quick start guide, set of power cables and three-year warranty. Dual interface with USB and LAN is installed as standard. The customer can install other interfaces.