Make ideas real



R&S®HMP POWER SUPPLY SERIES

versus Aim-TTi QL355TP



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.

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









AS*HMP2000 series /3 (all equal) hax. 188 W	R&S*HMP4000 series 3/4 (all equal) max. 384 W	Aim-TTi QL355TP 2 plus 1 auxiliary channel
nax. 188 W		
0 W	max. 384 W	000.11/
* **		228 W
IMP2020: 160 W)	160 W	105 W / 105 W / 18 W
2 V (all channels)	32 V (all channels)	35 V / 35 V / 6 V
A (HMP2020: 10 A)	10 A	3 A
4 V / 96 V	96 V / 128 V	70 V
5 A	30 A / 40 A	6 A
rp. 1.5 mV (RMS)		not specified
1 mA (RMS)		not specified
0.01 % + 2 mV		< 0.01 % + 2 mV
0.01 % + 250 μA		$< 0.01 \% + 250 \mu\text{A}$
0.05 % + 5 mV		< 0.1 % + 10 mV
0.1 % + 2 mA		< 0.2 % + 5 mA
es, for each channel		yes
S-232, USB, LAN, GPIB		RS-232, USB, LAN, GPIB
VP, OCP, FuseLink, OTP		OVP, OCP, OTP
es		no
mm safety sockets		4 mm safety sockets
es		no
85 x 95 x 405	285 x 136 x 405	280 x 160 x 290
	1 mA (RMS) 0.01 % + 2 mV 0.01 % + 250 µA 0.05 % + 5 mV 0.1 % + 2 mA es, for each channel S-232, USB, LAN, GPIB WP, OCP, FuseLink, OTP es mm safety sockets	1 mA (RMS) 0.01 % + 2 mV 0.01 % + 250 µA 0.05 % + 5 mV 0.1 % + 2 mA as, for each channel S-232, USB, LAN, GPIB VP, OCP, FuseLink, OTP as mm safety sockets

R&S®HMP series and Aim-TTi QL series II

R&S®HMP series:

- ▶ 4 instruments, 188 W or 384 W total output power
- ▶ 32 V max. output voltage (all models)





Aim-TTi QL series II:

- ▶ 4 instruments with/without remote control
- ▶ 0L355T/355TP: 228 W, 0 V to 35 V, 3 A
- ▶ QL564T/564TP: 242 W, 0 V to 56 V, 2 A (not considered here)

R&S®HMP series: all channels are equal

R&S®HMP4030 and Aim-TTi QL355TP, both instruments have 3 channels, but:





R&S®HMP4030:

All channels provide

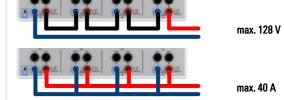
- ▶ 160 W max. output power
- ▶ 32 V max. output voltage
- ▶ 10 A max. output current

Aim-TTi QL355TP:

Channels are different

- ► Ch 1/2: 105 W. ch 3: 18 W
- ► Ch 1/2: 35 V. ch 3: 6 V
- ➤ 3 A max. output current per channel

Parallel and serial operation



R&S®HMP series:

All output channels can be configured in series to achieve higher output voltage, or in parallel for higher output current



Aim-TTi QL355TP:

- ▶ Only channels 1 and 2 can be combined in series or in parallel (max. 70 V or max. 6 A)
- ► Like R&S®HMP, external cables are required to connect the outputs

Connections on front and rear panels



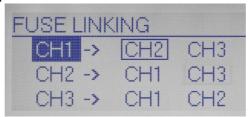


Connections for all channels – including sense lines – are also provided on the rear panel (R&S and Aim-TTi)

Protection functions to safeguard instrument and DUT

R&S and Aim-TTi offer overvoltage protection, overcurrent protection (electronic fuse) and overtemperature protection

R&S only:



Electronic fuses can be linked logically in any combination.

Example shown in picture:

- ▶ If channel 1 exceeds the maximum current level, then channel 1 and the linked channel 2 will be switched off
- Channel 3 is not involved because fuse 3 is not linked

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