

## HB 1124 / HB 1324

**Optimally adjusted**

- > Low input-voltage range - ideal for fuel cells
- > High input current up to 56 A

**Reliable**

- > Certified for the most important countries of installation (SMA Grid Guard)
- > Galvanic isolation

**Flexible**

- > Grid-parallel operation
- > Installation in stand-alone grids with Sunny Island



# HYDRO BOY 1124 / 1324

The powerful compact devices

SMA has a long tradition of inverters for fuel cells. More than ten years ago SMA modified the first solar inverters for use in fuel-cell applications. In the meantime, the Hydro Boy has become a huge market success. SMA equipped the Hydro Boy 1324 with a fan, which makes it even more powerful. The devices have a transformer on the grid-output side, thus turning them into specialists for direct grid feed anywhere in the world. For AC power scaling, the devices can simply be connected in parallel.

# Technical data

## HYDRO BOY 1124 / 1324

	HB 1124	HB 1324
<b>Input (DC)</b>		
DC nominal power	1200 W	1300 W
Max. DC voltage	60 V	60 V
Nominal input voltage / Operating range	24 V / 20 V - 55 V	24 V / 20 V - 55 V
Max. input current	56 A	56 A
<b>Output (AC)</b>		
Continuous AC output (at 25 °C)	1100 W	1200 W
Max. AC power	1200 W	1200 W
Nominal output current	4.8 A	5.2 A
Nominal AC voltage / range	220 V - 240 V / 180 V - 260 V	220 V - 240 V / 180 V - 260 V
AC grid frequency / range	50 Hz, 60 Hz / ±4.5 Hz	50 Hz, 60 Hz / ±4.5 Hz
Power factor (cos φ)	1	1
AC connection	single-phase	single-phase
<b>Efficiency</b>		
Max. efficiency	91 %	91 %
<b>Protection devices</b>		
DC reverse polarity protection	●	●
AC short-circuit monitoring	●	●
Ground-fault monitoring	●	●
Grid monitoring (SMA Grid Guard)	●	●
<b>General data</b>		
Dimensions (W / H / D) in mm	434 / 295 / 214	434 / 345 / 214
Protection rating	IP42	IP22
Weight	approx. 29 kg	approx. 29 kg
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C
Internal consumption: operation (standby) / off	< 5 W / < 0.1 W	< 5 W / < 0.1 W
Topology	LF transformer	LF transformer
Cooling concept	natural convection	forced-air cooling, temperature-controlled
<b>Features</b>		
DC connection: screw terminal	●	●
AC connection: plug connector	●	●
LCD display	●	●
Color of lid: red / blue	●/○	●/○
Interfaces: CAN / RS485 / RS232	●/○/○	●/○/○
Warranty: 2 years	●	●
Certificates and approvals	www.SMA.de	www.SMA.de
● Standard equipment ○ Optional	Data at nominal conditions	

