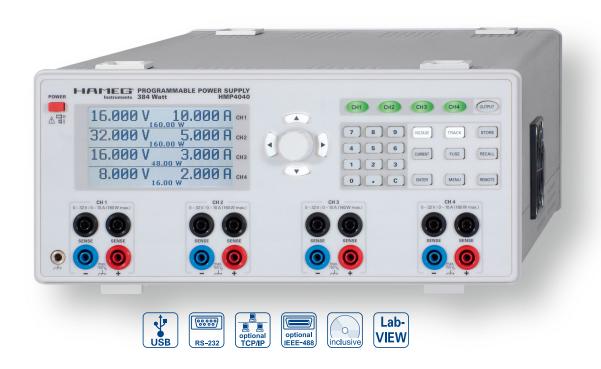
## Programmable 3[4] Channel High-Performance Power Supply HMP4030 [HMP4040]



3 Channel Version HMP4030



Individual Linking of single Channels using FuseLink



Rear Outputs for simple Integration in Rack Systems



- ☑ 3 x 0...32V/0...10A 384W max. [4 x 0...32V/0...10A 384W max.]
- ☑ 384W Output Power realized by intelligent Power Management
- ☑ High Setting- and Read-Back Resolution of 1mV up to 0.2mA
- ☑ Keypad for direct Parameter Entry
- ☑ Galvanically isolated, earth-free and short circuit protected
  Output Channels
- ☑ Advanced Parallel- and Serial Operation via V/I Tracking
- ☑ EasyArb Function for free definable V/I Characteristics
- ☑ FuseLink: Individual Channel Combination of Electronic Fuses
- ☑ Free adjustable Overvoltage Protection (OVP) for all Outputs
- oxdot All Parameters clearly displayed via LCD/Illuminated Buttons
- oxdot Rear Connectors for all Channels including Sense
- ☑ USB/RS-232 Interface, optional Ethernet/USB or IEEE-488 (GPIB)

Programmable 3 Channel High Performance Power Supply HMP4030 [Programmable 4 Channel High Performance Power Supply HMP4040] All data valid at 23 °C after 30 minutes warm-up.

## Outputs

Advanced parallel and series operation: simultaneous switching on/off of active channels via "Output" button, common voltage- and current control using tracking mode (individual channel linking), individual mapping of channels which shall be affected by FuseLink overcurrent protection (switch-off), all channels galvanically isolated from each other and the protective earth.

HMP4030	3 x 032 V/010 A
HMP4040	4 x 032 V/010 A
Output terminals:	4 mm safety sockets frontside, Screw-type terminal rear side (4 units per channel)
Output power:	384 W max.
Compensation of lead	
resistances (SENSE):	1 V
Overvoltage/overcurrent	
protection (OVP/OCP):	Adjustable for each channel
Electronic fuse:	Adjustable for each channel,

Response time: <10 ms

Recovery time after a load step from 10...90% for return

within a ±10 mV window:

32 V channels				
Output values:				
HMP4030	3 x 032 V/010 A, (5 A a	t 32 V, 160 W max.)		
HMP4040	4 x 032 V/010 A, (5 A a	t 32 V, 160 W max.)		
Resolution:				
Voltage	1 mV			
Current	<1A: 0.2 mA; ≥1A: 1 mA			
Setting accuracy:				
Voltage	<0.05% + 5mV (typ. ±2mV)			
Current	<0.1% + 5mA (typ. ±1mA	4 at I <500 mA)		
Measurement accuracy:				
Voltage	<0.05 % + 2 mV			
Current	<500 mA: <0.05 % + 1 mA	, typ. ±0.5 mA		
Current	≥500mA: <0.05 % + 2 mA, typ. ±2 mA			
Residual ripple	3 Hz100 kHz	3 Hz20 MHz		
Voltage	< 150 µV <sub>rms</sub>	1.5 mV <sub>rms</sub> typ.		
Current	<1 mA <sub>rms</sub>			
Residual deviation after a load change [1090%]:				
Voltage	<0.01% + 2mV			
Current	<0.01 % + 250 µA			
Residual deviation after a line voltage change (±10 %):				
Voltage	<0.01% + 2mV			
Current	<0.01 % + 250 µA			
December of the selection				

<100 µs

Arbitrary Function Easy Parameters of points: Voltage, current, time Number of points: 128 Dwell time: 10 ms...60 s Repetition rate: Continuous or burst mode with 1...255 repetitions Trigger: Manually via keyboard or via Interface Maximum ratings Reverse voltage: 33 V max. Reverse polarized voltage: 0.4V max. Max. permitted current in case of reverse voltage: 5A max. Voltage to earth: 150 V max. Miscellaneous Temperature coefficient/°C: Voltage 0.01% + 2mVCurrent 0.02% + 3mA240 x 128 Pixel LCD (full graphical) Display: Memory: Non volatile memory for 3 Arbitrary functions and 10 device settings Dual-Interface USB/RS-232 (HO720) Interface: Processing time: <50 ms Safety class I (EN61010-1) Protection class: Power supply: 115/230 V±10%; 50...60 Hz, CAT II Mains fuses: 5 x 20 mm slow blow 115V: 2 x 10 A 230 V: 2 x 5 A Power consumption: 550 VA max. Operating temperature: +5...+40°C -20...+70°C Storage temperature:

Accessories supplied: Line cord, Operating manual, CD, Software				
Recommended accessories:				
H0730	Dual-Interface Ethernet/USB			
H0740	Interface IEEE-488 (GPIB), galvanically isolated			
HZ10S	5 x silicone test lead (measurement connection in black)			
HZ10R	5 x silicone test lead (measurement connection in red)			
HZ10B	5 x silicone test lead (measurement connection in blue)			
HZ13	Interface cable (USB) 1.8 m			
HZ14	Interface cable (serial) 1:1			
HZ43	19'' Rackmount Kit 3RU			
HZ72	GPIB-Cable 2m			
HZP91	19" Rackmount Kit 4RU			

Rel. humidity: Dimensions (W  $\times$  H  $\times$  D):

Weight:

5...80% (non condensing)

285 x 125 x 365 mm

approx. 10 kg