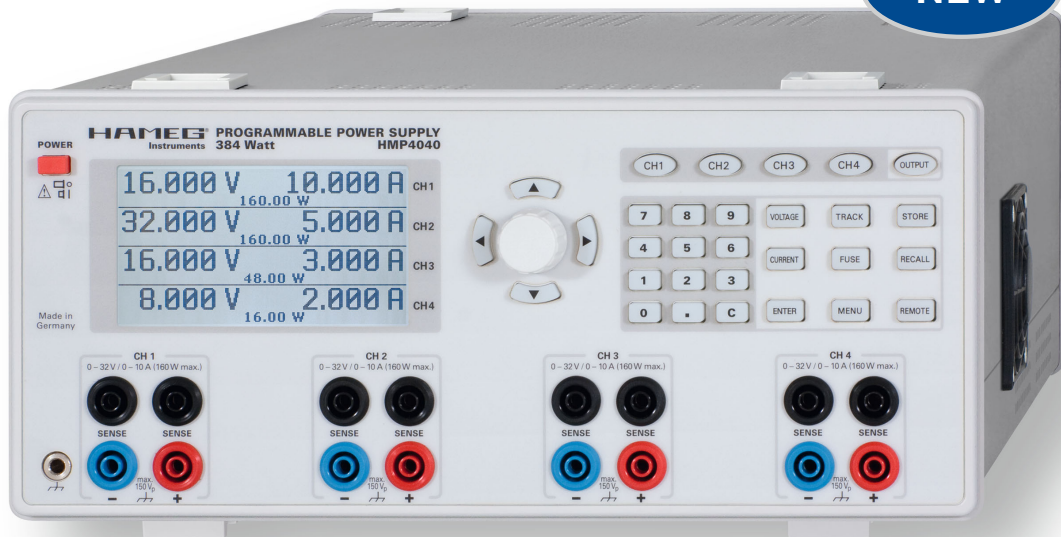


# Programmable 3/4 Channel High-Performance Power Supply HMP4030/HMP4040

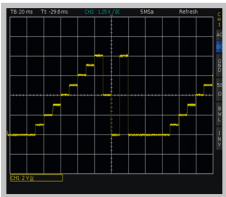
**NEW**



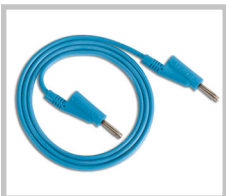
HMP4040



EasyArb functionality for simple voltage- and current characteristics



Silicone test cable HZ10B



Ethernet/USB-interface H0730 for industrial use (Option)



- ✓ HMP4030: 3x0...32V/0...10A, 384W max.
- ✓ HMP4040: 4x0...32V/0...10A, 384W max.
- ✓ 384W output power realized by intelligent power management
- ✓ Low residual ripple:  $< 150 \mu\text{V}_{\text{rms}}$  due to linear post regulators
- ✓ High setting- and read-back resolution of 1mV/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
- ✓ All parameters clearly displayed via LCD/glowing buttons
- ✓ Rear connectors for all channels including sense
- ✓ USB/RS-232 Interface, optional Ethernet/USB or IEEE-488

## Programmable 3 Channel High Performance Power Supply HMP4030 Programmable 3 Channel High Performance Power Supply HMP4040

All data valid at 23 °C after 30 minute warm-up

### Outputs

Advanced parallel and series operation: simultaneously switch 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 and independant from protective earth

HMP4030	3 x 0...32V/0...10A
HMP4040	4 x 0...32V/0...10A
<b>Output terminals:</b>	4mm safety sockets frontside Screw-type terminal rear side (4 units per channel)
<b>Output power:</b>	384W max.
<b>Compensation of lead resistances (Sense):</b>	1V
<b>Overvoltage / overcurrent protection (OVP/OCP):</b>	Adjustable for each channel
<b>Electronic fuse:</b>	Adjustable for each channel, combinable via FuseLink
<b>Response time:</b>	< 10ms

### 32V channels

<b>Output values:</b>	
HMP4030	3 x 0...32V/0...10A, [5A at 32V, 160W max.]
HMP4040	4 x 0...32V/0...10A, [5A at 32V, 160W max.]
<b>Resolution:</b>	
Voltage	1mV
Current	< 1A: 0.2mA; ≥ 1A: 1mA
<b>Setting accuracy:</b>	
Voltage	< 0.05% + 5mV (typ. ±2mV)
Current	< 0.1% + 5mA (typ. ±1mA at I < 500mA)
<b>Measurement accuracy:</b>	
Voltage	< 0.05% + 2mV
Current	< 500mA: < 0.05% + 0.5mA, typ. ±0.5mA
Current	≥ 500mA: < 0.05% + 2mA, typ. ±2mA
<b>Residual ripple (3Hz...100kHz):</b>	
Voltage	< 150µV <sub>rms</sub>
Current	< 1mA <sub>rms</sub>
<b>Stabilisation at load change (10...90%):</b>	
Voltage	< 0.01% + 2mV
Current	< 0.01% + 250µA
<b>Stabilisation at line voltage variation (±10%):</b>	
Voltage	< 0.01% + 2mV
Current	< 0.01% + 250µA
<b>Entire load regulation:</b> (at 10%...90% load peak, balance time to match within 10mV U <sub>nom</sub> .)	< 100µs

### Arbitrary Function easyARB (32V and 5V channels)

<b>Parameters of points:</b>	Voltage, current, time
<b>Number of points:</b>	128
<b>Dwell time:</b>	10ms...60s
<b>Repetition rate:</b>	Continuously or burst mode with 1...255 repetitions
<b>Trigger:</b>	Manually via keyboard or via Interface

### Maximum ratings

<b>Reverse voltage:</b>	33V max.
<b>Reverse polarized voltage:</b>	0.4V max.
<b>Max. permitted current in case of reverse voltage:</b>	5A max.
<b>Voltage to earth:</b>	150V max.

### Miscellaneous

<b>Temperature coefficient/°C:</b>	
Voltage	0.01% + 2mV
Current	0.02% + 3mA
<b>Display:</b>	240 x 128 Pixel LCD (full graphical)
<b>Memory:</b>	Non volatile memory for 3 Arbitrary functions and 10 device settings
<b>Interface:</b>	Dual-Interface USB/RS-232 (H0720)
<b>Process time:</b>	< 50ms
<b>Protection class:</b>	Safety class I [EN61010-1]
<b>Power supply:</b>	115/230V ± 10%; 50/60Hz, CAT II
<b>Mains fuse:</b>	Microfuse 5 x 20mm slow blow 115V: 2 x 10A 230V: 2 x 5A
<b>Power consumption:</b>	550VA max.
<b>Operating temperature:</b>	+5°C...+40°C
<b>Storage temperature:</b>	-20°C...+70°C
<b>Rel. humidity:</b>	5%...80% (non condensing)
<b>Dimensions (W x H x D):</b>	285 x 125 x 365mm
<b>Weight:</b>	approx. 10kg

**Accessories supplied:** Line cord, Operating manual, Dual-Interface USB/RS-232 (H0720), CD

#### Optional 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)
HZ43	3RU 19" Rackmount Kit

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