

# Low noise linear power supply



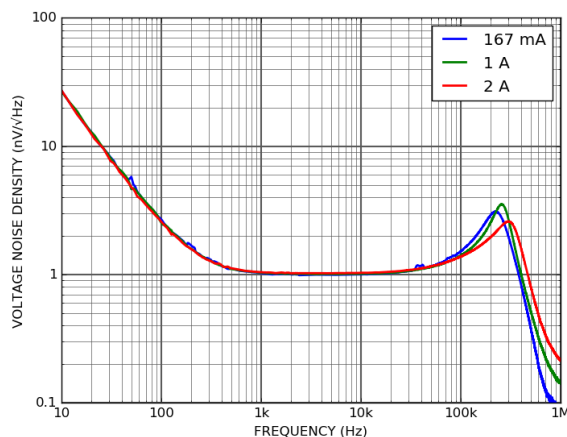
Koheron QPS100 is a linear power supply that can drive up to 2 A. Its low noise helps getting the full performance of critical analog components (amplifiers, data converters, oscillators, phase lock loops, ...).

## Specifications

	QPS100P-5	QPS100N-5
Output voltage	+5 V (can be adjusted from 2 V to 15 V following the <a href="#">user guide</a> )	-5 V (can be adjusted from -2 V to -15V following the <a href="#">user guide</a> )
Current driving capability	2 A	2 A
Voltage noise density (1 kHz)	1.1 nV/ $\sqrt{\text{Hz}}$	1.7 nV/ $\sqrt{\text{Hz}}$
RMS noise (10 Hz - 1 MHz)	1.5 $\mu\text{V}$	1.8 $\mu\text{V}$
Temperature coefficient	10 ppm/ $^{\circ}\text{C}$	20 ppm/ $^{\circ}\text{C}$
Load regulation	0.5 %	0.5 %
Supply voltage	5.5 V to 7 V (6 V recommended)	-5.5 V to -7 V (-6 V recommended)
Operating temperature	-20 $^{\circ}\text{C}$ - 70 $^{\circ}\text{C}$	-20 $^{\circ}\text{C}$ - 70 $^{\circ}\text{C}$
Weight	14 g	14 g
Outside Dimensions	73 mm x 25 mm x 11 mm	73 mm x 25 mm x 11 mm

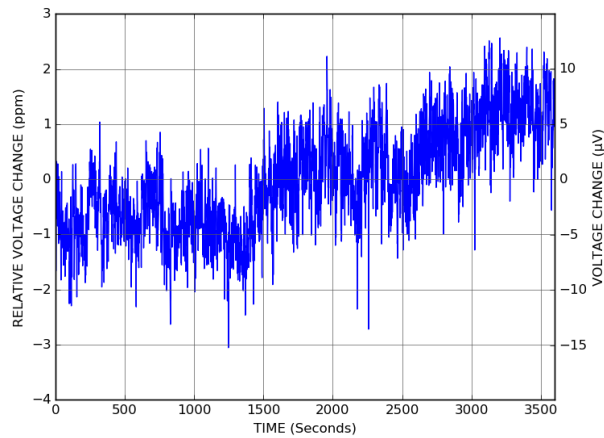
## Voltage noise density

The figure below shows the voltage noise density of QPS100P (+5 V output voltage).



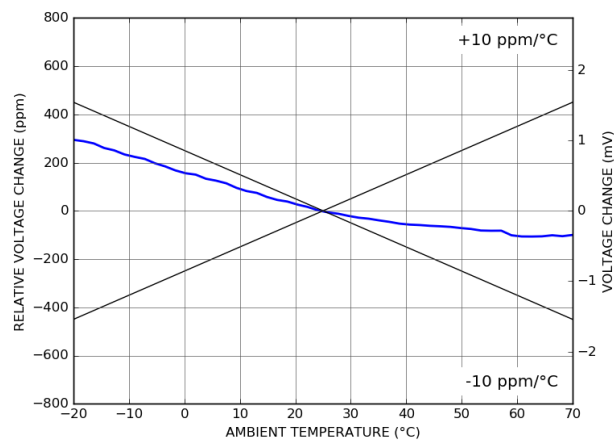
## Short-term stability

The figure below shows the stability of QPS100P-5 (+5 V output voltage) over one hour when driving 2 A.



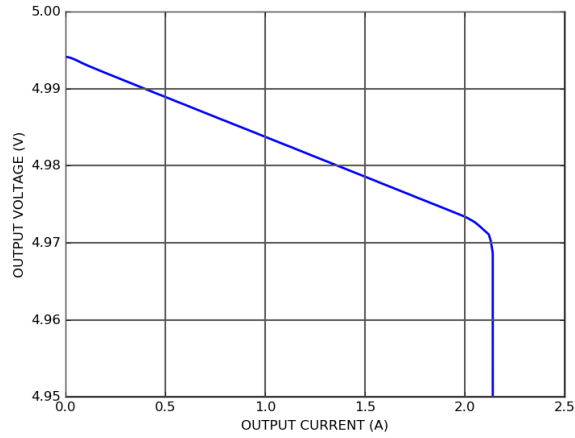
## Temperature stability

The figure below shows the temperature stability of QPS100P-5 (+5 V output voltage).



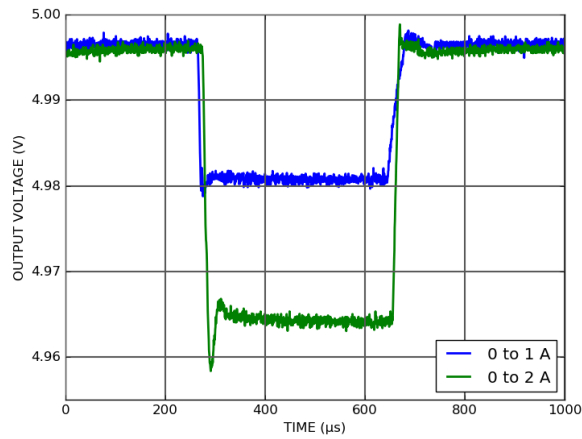
## Load regulation

The figure below shows the output voltage versus output current of QPS100P-5 (+5 V output voltage).



## Load transient response

The figure below shows the load transient response of QPS100P-5 (+5 V output voltage).



## Ordering codes

- QPS100P-5: Output voltage +5 V
- QPS100N-5: Output voltage -5 V