



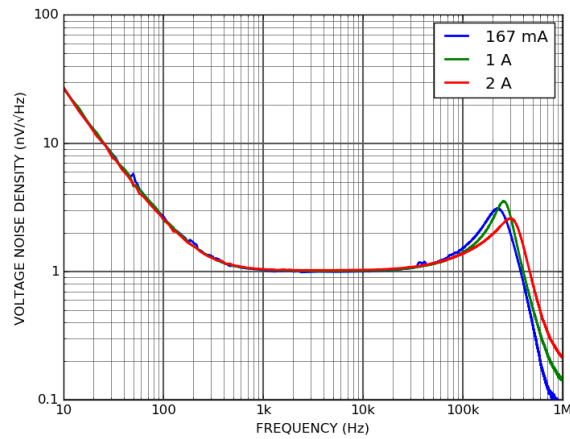
Koheron QPS100 is a linear power supply that can drive up to 2 A. Its low noise helps getting the full performance of critical analog components (amplifiers, data converters, oscillators, phase lock loops, ...).

Specifications

	QPS100N-5	QPS100P-5
Output voltage	-5 V (adjustable from -15 V to -2 V, see user guide)	5 V (adjustable from 2 V to 15 V, see user guide)
Current driving capability	2 A	2 A
Voltage noise density 1 kHz	1.7 nV/ $\sqrt{\text{Hz}}$	1.1 nV/ $\sqrt{\text{Hz}}$
RMS noise 10 Hz to 1 MHz	1.8 μV_{rms}	1.5 μV_{rms}
Temperature coefficient	20 ppm/ $^{\circ}\text{C}$	10 ppm/ $^{\circ}\text{C}$
Load regulation	0.5 %	0.5 %
Supply voltage	-7 V to -5.5 V, nom. -6 V	5.5 V to 7 V, nom. 6 V
Operating temperature	-20 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$	-20 $^{\circ}\text{C}$ to 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

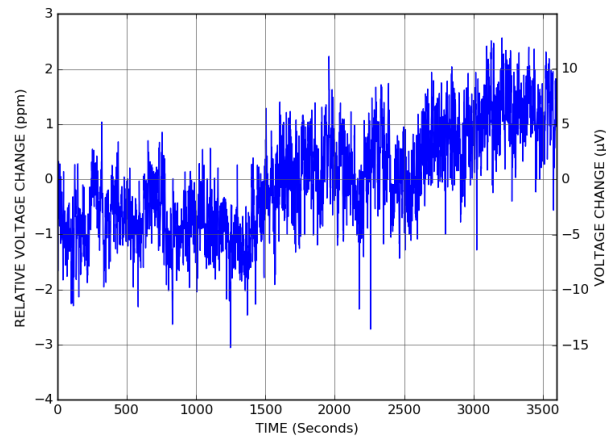
The figure below shows the voltage noise density of QPS100P (5 V output voltage).



QPS100P-5 voltage noise density

Short-term stability

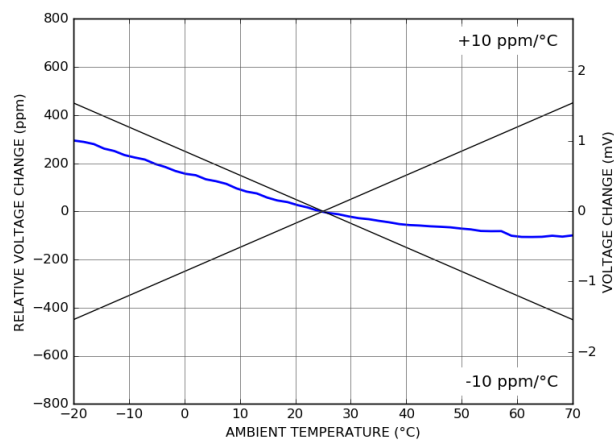
The figure below shows the stability of QPS100P-5 (5 V output voltage) over one hour when driving 2 A.



QPS100P-5 one hour voltage stability

Temperature stability

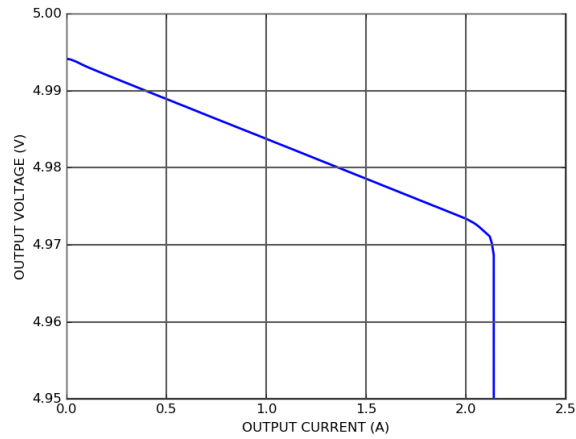
The figure below shows the temperature stability of QPS100P-5 (5 V output voltage).



QPS100P-5 temperature coefficient

Load regulation

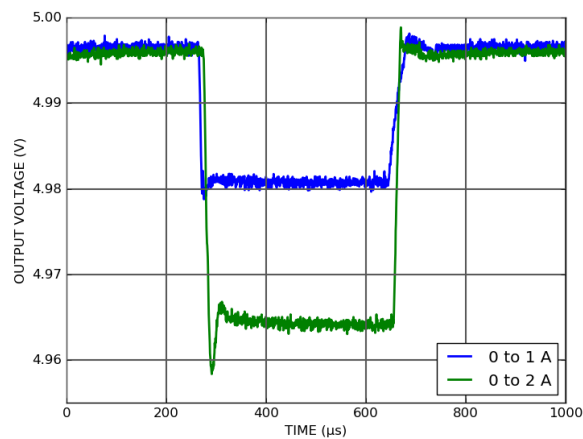
The figure below shows the output voltage versus output current of QPS100P-5 (5 V output voltage).



QPS100P-5 load regulation

Load transient response

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



QPS100P-5 load transient response

Ordering codes

PRODUCT NUMBER	ATTRIBUTE
QPS100P-5	Output voltage +5 V
QPS100N-5	Output voltage -5 V