



DRV-01

ULTRALOW NOISE CURRENT DRIVER

The DRV-01 is an ultralow noise current source. It has been developed to offer the best performances in terms of output current suitable for floating diode lasers. It provides up to 700 mA DC current with fast external modulation. The electronic circuit is integrated in a modern designed aluminum enclosure with standard connectors for an easy use.



SPECIFICATIONS

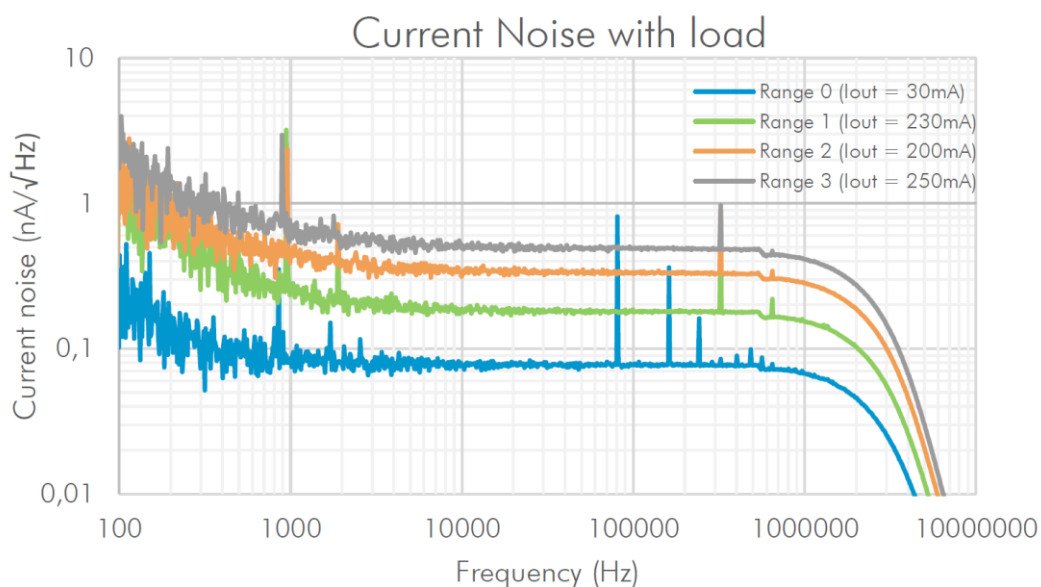
- Number of outputs: 1
- Output current: 0 mA to 700 mA
- Output current ranges: 50 mA, 230 mA, 450 mA, 700 mA
- Minimum current noise density: $76 \text{ pA}/\sqrt{\text{Hz}}$ (50 mA range)
- Selectable modulation gain: 3 per each current range
- Output/input connectors: SMA female
- 3 dB modulation bandwidth: 40 MHz
- Interface: USB control with dedicated software
- Operating temperatures: 0 °C to 40 °C
- Compatible electrical connections: Floating diodes
- Product dimensions: 125 x 80 x 35 mm³
- Product weight: approx. 400 g
- Supply voltage: 9 VDC



PRODUCTS



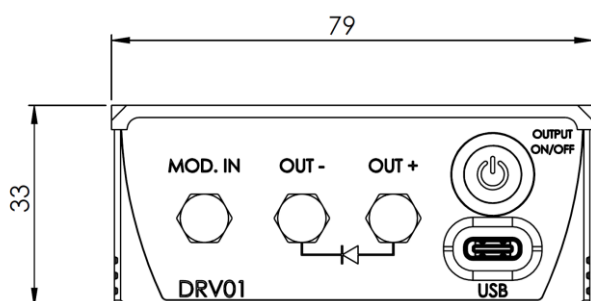
PERFORMANCES



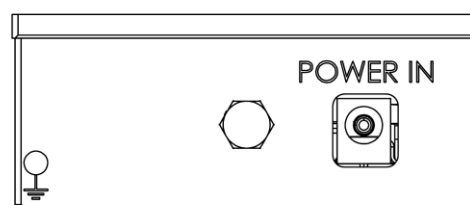
Typical current noise power spectral density of the current ranges

DRAWINGS

The dimensions of the device are presented here with a simplified view. It also shows the connections from the front and back view of the instrument.



FRONT



BACK

Dimensions are in [mm]



FUNCTIONAL DIAGRAM

The functional diagram is a simple view of what the instrument does. It enables a fast and simple understanding of the internal functionalities in respect to the system inputs and outputs.

