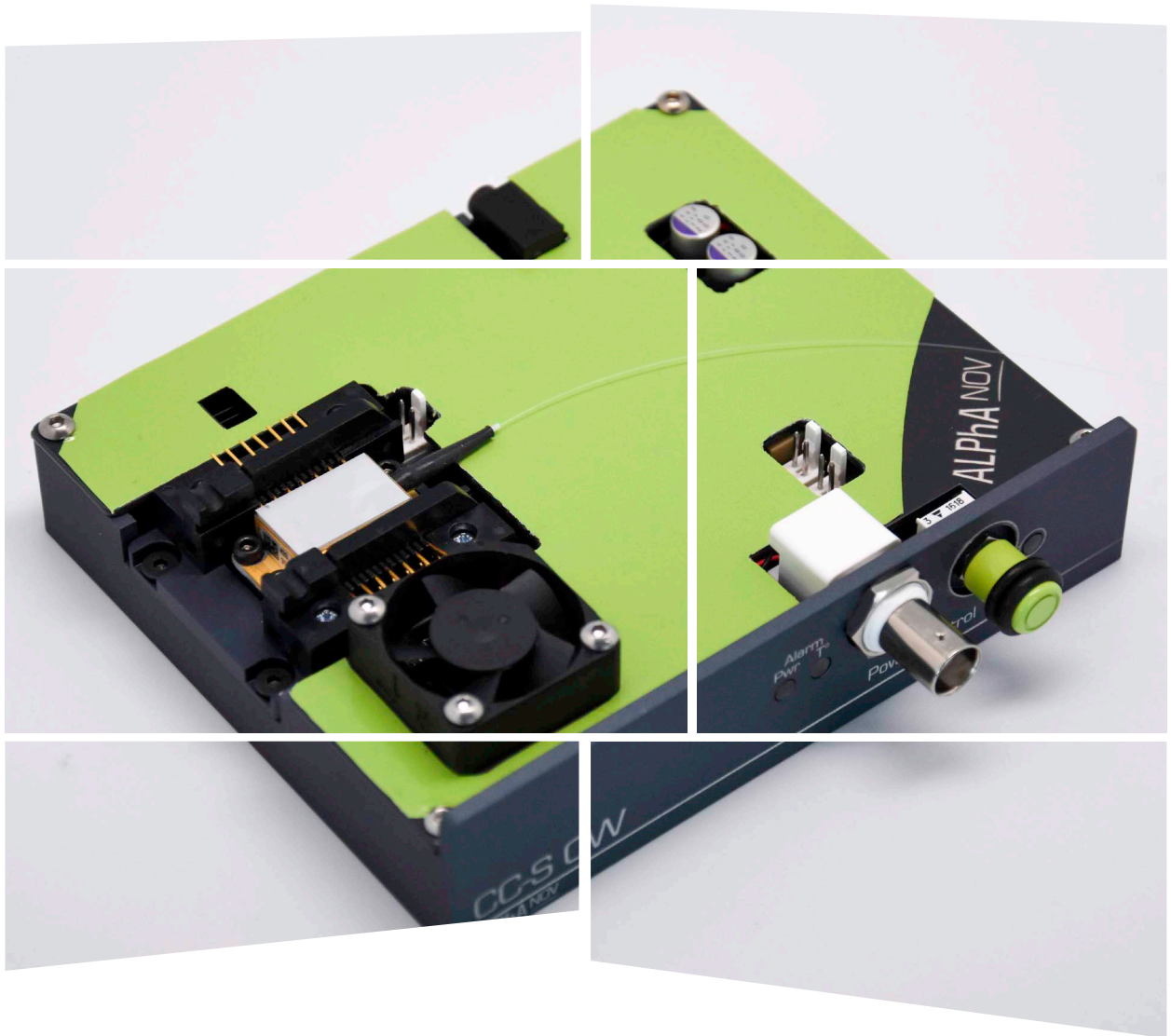


CCS-CW

To drive Single-Mode butterfly laser diodes in CW regime



ALPhA **NOV**

Optics & Lasers Technology Center

CCS-CW

To drive Single-Mode butterfly laser diodes in CW regime

Current source + TEC controller + Pre-configured butterfly mounting socket + USB interface with simple GUI



These fully integrated laser diode control and mounting modules are designed for cost effective precision control of butterfly packaged laser diode modules in research labs and for product integration. These modules deliver ultra-low noise CW laser diode drive current performance and a high efficiency TEC control circuit with a pre-configured mounting socket. Multiple layers of laser diode protection ensure that your device is protected at all times. A USB interface offers users the convenience of remote I/O with simple set-up and control via a GUI interface.

Features

- Compatible with standard butterfly laser diodes (Type 1 or Type 2 pin assignment)
- Output Current: 0.00 mA - 1500.00 mA
- Current Set-Point Resolution (@ 200 mA Set-Point): 0.05 mA
- Output Voltage Maximum: 4.8 V
- USB, manual & analog (0-5 V) signal peak power adjustment
- Smart control (USB interface to drive simultaneously several modules from ALPhANOV's laser electronics series)

Technical Specifications

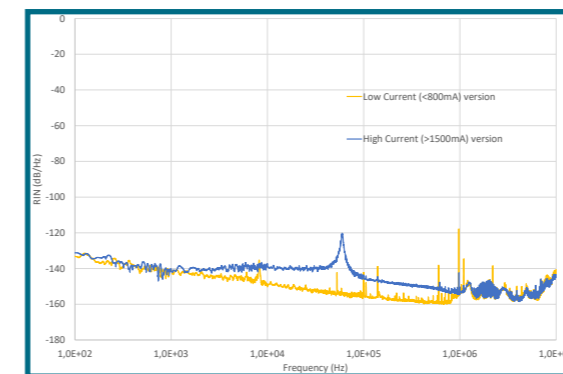


Electronic and Optical

	Min	Max [stand version]	Max [High-current version]
Output Current	0	800 mA	1500 mA
Current set point resolution (@ 200 mA)	0.05 mA	-	-
Output voltage	0	4.8 V	5 V ⁽¹⁾
Laser diode package T° regulation	15°C	50°C	
TEC current/voltage	±1.5 A/3.8 V		
Compatibility	Windows XP/7/10		
Interface	USB		
Power Supply	12 V (220 V/110 V adaptater included)		

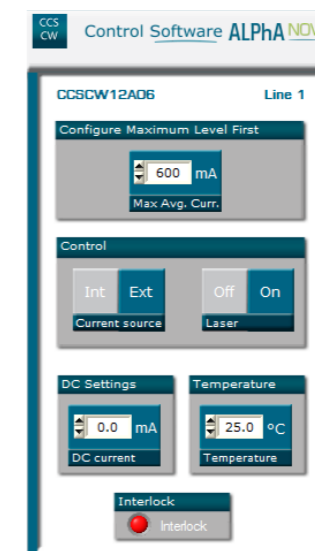
⁽¹⁾ up to 9 V available on demand

Noise curve

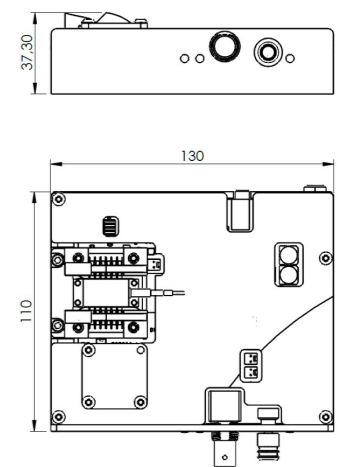


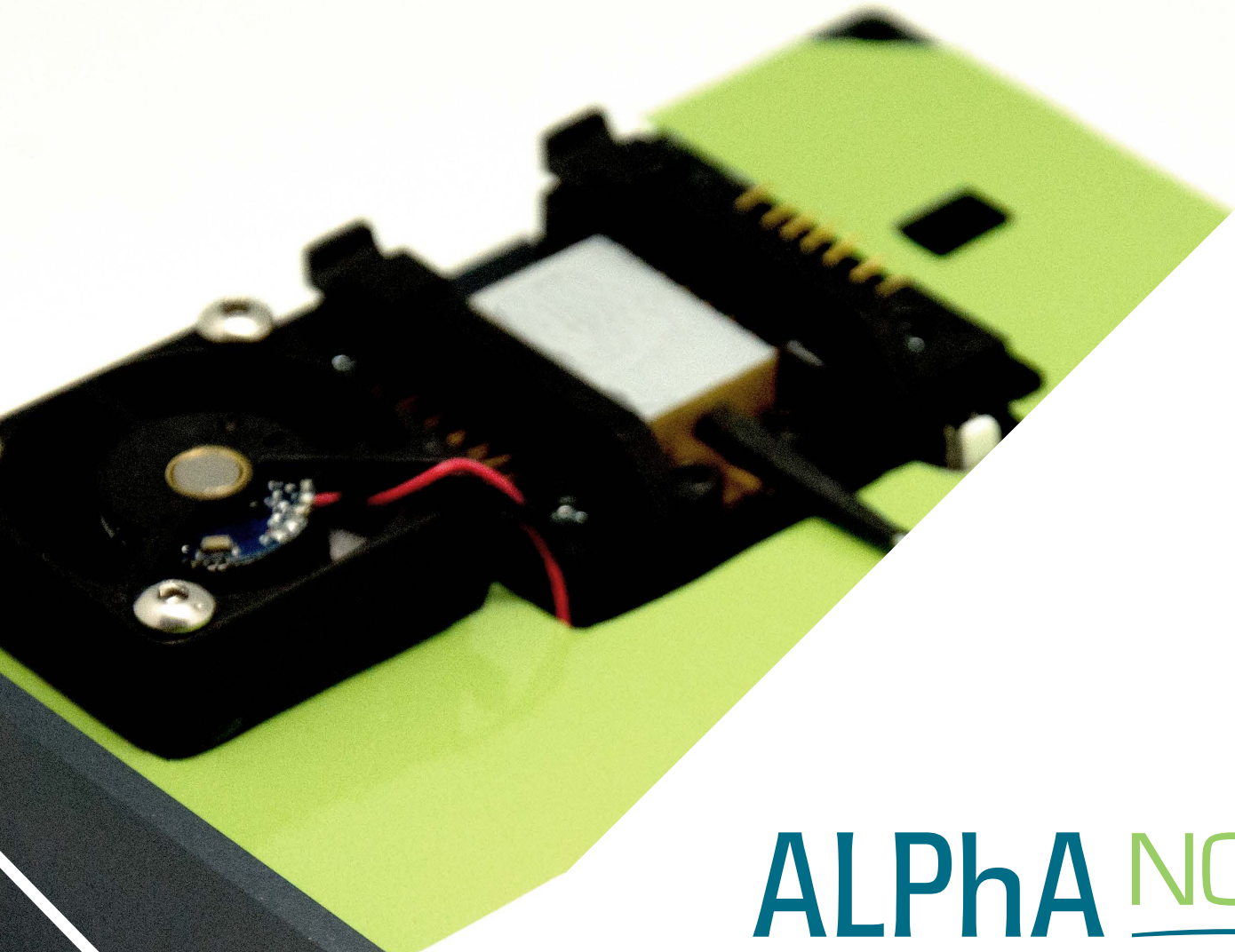
Noise curve for low current (LC) and high current (HC) version

Software



Mechanical





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