

HighLight DL HQ Series

High Quality Diode Laser

Coherent HighLight[™] DL HQ series products offer a unique combination of high output power and high beam quality from a small diameter fiber (400 µm to 800 µm), making them an ideal solution for keyhole welding and other tasks that require the precision application of heat, including surface treatment, cladding, 3D additive manufacturing and brazing. Furthermore, HighLight[™] DL HP lasers offer enhanced ease of use because their highly reliable, conduction-cooled diodes do not require deionized cooling water. Additionally, these lasers support plug-and-play fiber exchange by the user, and their web interface enables simplified access and control through any device with a web browser.

A wide range of options and accessories are available for HighLight DL HP Series products to provide flexibility for integration and to facilitate their use in a variety of settings. For example, climate control of the laser enclosure allows operation in high humidity environments.

FEATURES & BENEFITS

- Output power: 2,000 Watts
- Fiber-coupled system
- Small fiber diameters
- Cost and energy efficient
- Modular concept

APPLICATIONS

- Keyhole welding
- Surface treatment
- Cladding
- 3D additive manufacturing
- Brazing





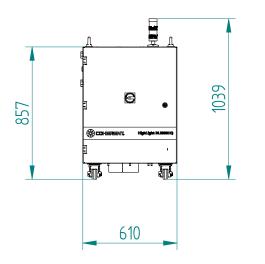
Nominal Power (Wow) 2000 Power Range (%) 10 to 10 00 Laser Beam Quility (BPP) 44mm x mrad Power Stability +7% over 74 h (coding water <+1K) Puble Frequency Range Laser On Signa: (Her) Wavelergh (nm) 980 ELECTRICAL RATINGS 980 Voltage 3x AC 2230/400V ±10%; 50/60 Hz; PE or Someted Load (WA) approx. 7 Effective Power at Nominal Power (KW) approx. 7 Effective Power at Nominal Power (KW) approx. 6 Max. Current Consumption at 400 V(A) +10 Fusers Type NH (A) 16 COOLING Emperature (C) 4.5 Temperature (C) Laser: 22; Optic 22 or above devejoint temperature Temperature (C) 4.1 10 Fusers Type NH (A) 16 0 Contends Factormended Cooling Capacity' (WA) 4.5 Temperature (C) Laser: 22; Optic 22 or above devejoint temperature Temperature To Textone Range (C) Temperature To Textone Range (C) 4.1 10 Temperature To Textone Range (C) 4.3.5 <td< th=""><th>SPECIFICATIONS</th><th>HighLight DL2000HQ</th></td<>	SPECIFICATIONS	HighLight DL2000HQ
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		Bus-Interface (CAN, EtherCAT)

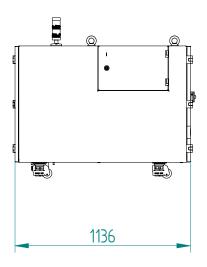
* The recommended cooling capacity covers maximum power dissipation due to diode degradation and 100% laser power absorbed at an internal or external beam dump. ** CCU = Climate Control Unit

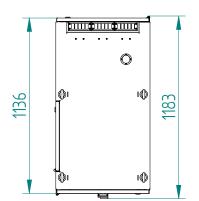


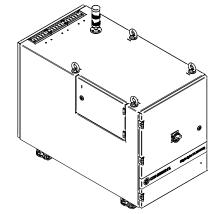
MECHANICAL SPECIFICATIONS

HighLight DL2000HQ











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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all HighLight Lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative. Printed in the U.S.A. MC-026-18-0M0818 Copyright ©2018 Coherent, Inc.



Coherent-Dilas industrial lasers are designed in strict accordance with the respective safety regulations. We certify that each laser manufactured by our company complies with FDA Radiation Performance Standards, 21 CFR Subchapter J and with IEC 60825. Warning labels as shown in the figure appear on each Coherent-Rofin laser to indicate the respective classification.