

# Cobolt Fandango™

DATA SHEET

## 515 nm DPSSL, single longitudinal mode (SLM) 25 – 50 mW CW

The Cobolt Fandango™ is a continuous-wave diode-pumped solid-state laser device operating at a fixed wavelength of 515 nm and built using proprietary HTCure™ manufacturing technology. The laser has a compact hermetically sealed package and emits a high quality laser beam with stable characteristics over a wide range of operating conditions. Single-longitudinal mode operation provides a narrow spectral bandwidth and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The Cobolt Fandango™ laser is intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for applications including confocal microscopy, laser scanning microscopy, medical diagnosis and spectroscopy.



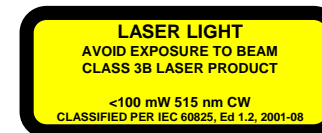
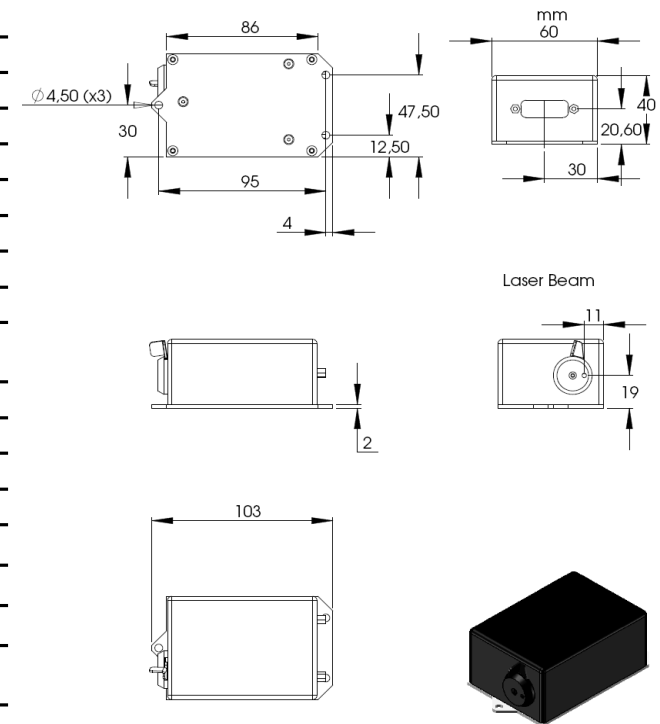
### Specifications

Wavelength	515 nm
Output power	25, 50, 100 mW
Spectral linewidth	<30 MHz (<0.03 pm)
Spatial mode	TEM00, M <sup>2</sup> <1.1
Beam diameter at aperture	700 μm
Beam divergence (full angle)	<1.2 mrad
Noise, 10 Hz – 2 MHz (pk-pk)	<3%, typical <2%
Noise, 10 Hz – 2 MHz (rms)	<0.3%, typical <0.2%
Long-term stability (8 h)	<3%
Beam pointing stability (over 10–40 °C)	<10 μrad/°C
Polarization ratio	>100:1
Total system power consumption	<25 W, typical <15 W
Operating temperature	10–40°C
Laser head dimensions [mm]	95 x 60 x 40
Laser head dimensions [inches]	3.8 x 2.4 x 1.6
Controller (OEM/CDRH) dimensions [mm]	190 x 72 x 28
Controller (OEM/CDRH) dimensions [inches]	7.6 x 2.9 x 1.1
Model number	0515-04-01-0pwr-300 CDRH 0515-04-01-0pwr-400 OEM

### Options & Accessories

Laser heatsink  
Fiber coupling  
Customised interface cable  
RS-232 communication cable

### Laser Head Dimensions



Class 3B (IEC60825-1), IEC60950-1, UL 60950-1

Full specifications can be found in the manual.  
Subject to change without notice. Rev 0509.



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