

## BrightLase<sup>®</sup> Ultra-500

### Features

- 808, 888, 976, 1320, 1470, 1540
- Custom Wavelengths available
- Detachable fiber available
- Cladding free power
- Dichroic filter protection available
- Integrated water-cooled plate
- Optional aiming beam, MPD, fiber detection sensors

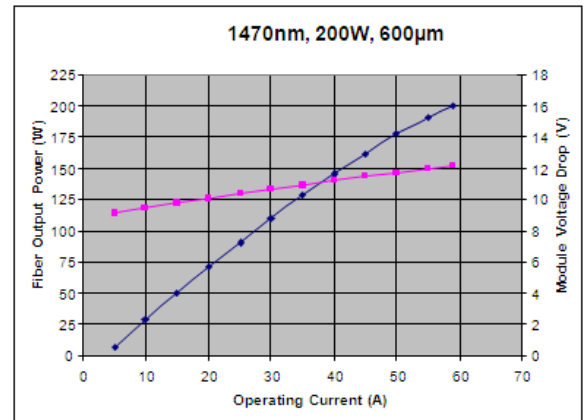


### Applications

- Laser pumping: Fiber lasers, Solid state lasers
- Materials processing: Soldering, Welding, Surface Hardening
- Medical: Surgical

### Benefits

- Low power consumption
- Compact
- Long lifetime
- High efficiency
- Insensitivity to back-reflection for materials processing

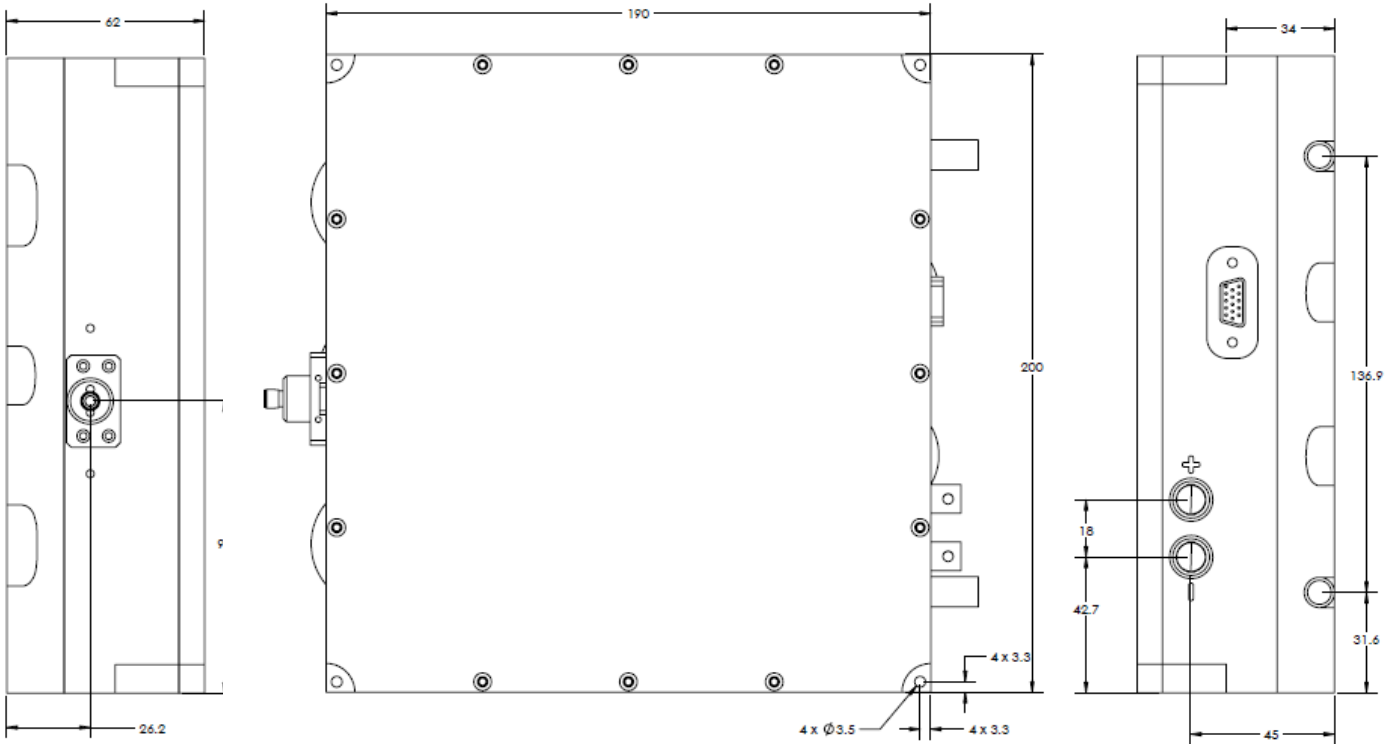


Specification	Units	6408-0000	6408-0004	6409-0005	6413-M203	6414-0001	6414-0007	6415-0002
Output Power (Pop)	W	200	250	400	150	100	200	150
Operating Current (Iop) (Max)	A	< 50	< 64	< 78	<60	<55	< 65	<70A
Operating Voltage (Vop) (Max)	V	< 11	< 11	< 12.5	<11	< 8.6	< 13	<11
Center Wavelength	nm	808	888	976	1318	1470	1470	1540
Center Wavelength Tolerance	nm	± 5	± 3	±10	+15/-10	± 15	± 15	± 20
Spectral Width	nm	< 5	< 5	< 10	20	< 20	< 20	<20
Wavelength Coefficient of Temp	nm/° C	0.3	0.3	0.3	0.45	0.45	0.45	0.50
Operating Temperature (Top)	° C	20	20	25	20	20	20	20
Fiber Core Diameter	um	400	400	600	600	400	600	600
Fiber Core Numerical Aperture	No Units	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Fiber Length	m	2	2	2	2	2	2	2
Fiber Output Connector	No Units	SMA	SMA	SMA	SMA	SMA	SMA	SMA
Chiller Flow Capacity	l/min	> 3	> 4	> 5	>3	> 3	> 3	> 3
Dimensions	mm	200 x 190 x 62						

Warning : Class 4 Laser, Invisible Laser Radiation – Avoid Eye or Skin Exposure to Direct or Scattered Radiation.

For reference only. Product specifications may change without notice.

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Pin number	Assignment
1	Thermistor
2	Thermistor
3	Not used
4	Not used
5	Optional MPD +
6	Optional MPD -
7	Not used
8	Not used
9	Not used
10	Not used
11	Not used
12	Not used
13	Not used
14	To Optional Aiming Beam 5V DC output “+”
15	To Optional Aiming Beam 5V DC output “-”

