

BrightLase[®] Ultra-50

Features

- 792, 808, 888, 915, 940, 976, 1064, 1210, 1320, 1470, 1532, 1710, and 1920nm
- Detachable fiber
- Armor or bare fiber delivery
- Dichroic filter protection available
- Cladding-free power
- Conduction cooled package
- Thermistor standard
- Aiming Beam, photodiode optional



Applications

- Laser pumping: Fiber lasers, Solid state lasers
- Materials processing: Marking, Soldering, Plastics welding
- Medical: Dental, Ophthalmology, Therapeutic

Benefits

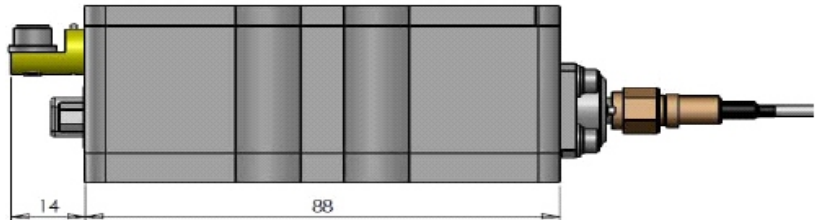
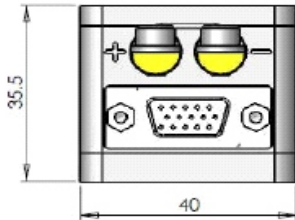
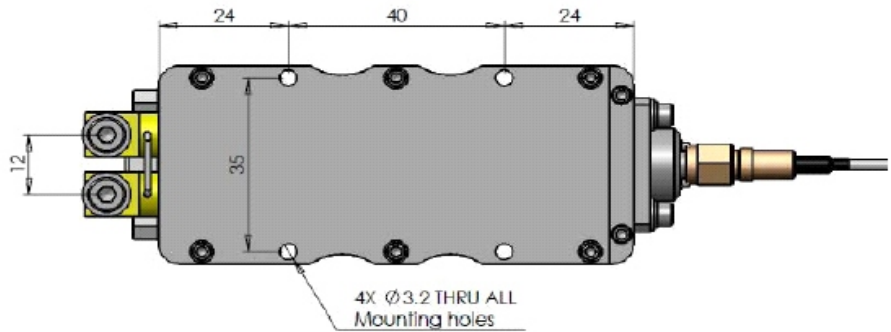
- Compact
- High Efficiency
- Long working distance and sharper features for materials processing applications

Specification	Units	6007- 0002	6008-1118	6009 -0000	6017 - 0000
Output Power (Pop)	W	20	40	50	10
Operating Current (I _{op}) (Max)	A	< 35	68	< 70	<40
Operating Voltage (V _{op}) (Max)	V	< 2	1.75	< 1.6	<1.3
E-O efficiency (Typical)	%	40	42	50	20
Center wavelength	nm	792	888	976	1710
Center Wavelength Tolerance	nm	± 3	± 3	± 3	± 20
Spectral Width (Max)	nm	< 2.5	<4	< 5	<20
Wavelength Coefficient of Temp	nm/° C	0.3	0.3	0.3	0.5
Fiber Core Diameter	um	100	400	200	400
Fiber Core Numerical Aperture	No Units	0.22	0.22	0.22	0.22
Fiber Length	m	2	2	2	2
Fiber Output Connector	No Units	SMA	SMA	SMA	SMA
Operating Temperature (Top)	° C	25	25	25	20
Thermistor Impedance	kOhms	10	10	10	10

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	Not used
2	Not used
3	Optional Aiming beam power supply “+”
4	Optional Aiming beam power supply “+”
5	Optional Monitor Photodiode “+”
6	Optional Monitor Photodiode “-”
7	Not used
8	Not used
9	Not used
10	Not used
11	Not used
12	Not used
13	Not used
14	Thermistor
15	Thermistor

