

CW DPSS All-solid-state Lasers



We offer all series of CW diode-pumped solid-state lasers with laser wavelengths at 473nm, 532nm, 589nm and 1064nm and with maximum laser power 4W. These lasers are widely used in scientific, medical, industrial and entertainment applications. We have many years of experience in researching and developing DPSS laser systems.

- Laser power is stable and adjustable
- Protected with overheating and over current
- Can be externally controlled with high speed modulation
- Suitable for scientific research, medical treatment, biological engineering, stage laser show, etc

List of Main CW DPSS Lasers

Part Number	Wavelength	Laser Power
ST-I-N-473-xxx	473nm	20/50/100mW
ST-II-N-473-xxx	473nm	100/150/200mW
ST-I-N-532-xxx	532nm	50/100/150/200/300mW
ST-II-N-532-xxx	532nm	0.5/1/1.5/2/3/4W
ST-III-N-532-xxx	532nm	5/6/7/8/10W
ST-II-N-589-xxx	589nm	50/100/150/200/300/500/800/1000mW
ST-II-N-1064-xxx	1064nm	0.5/1/1.5/2/3/4W

Remarks: 1) In the part number, xxx means laser power in mW or W; 2) Other power levels available upon request; 3) fiber output delivery available upon request; 4) There are 2 or 3 average power stabilities for all lasers and default is 5%; 5) There are 2 types of power supplies: integrated and OEM. The power input of integrated is 110V-220VAC and the power input of OEM is 12VDC.

473nm CW DPSS Lasers

Part Number	ST-I-N-473-xxx	ST-II-N-473-xxx
Wavelength (nm)	473	473
Operation Mode	CW	CW
Beam Mode	TEM00	TEM00
Output Power (mW)	20/50/100	100/150/200
Average Power Stability (Over 4hrs)	<1%/<3%/<5%	<1%/<3%/<5%
Beam Divergence (full angle, mrad)	1.2	1.5
Beam Diameter at Aperture (mm)	<1.5	<3
Beam Height from Base Plate	27	50
Warm-up Time (min)	<10	<10
Cooling	Air	Air
Operation Tem. (°C)	15-35	15-35
Power Supply	ST-IIA(GT1)/ST-OEM-B(GT1)	ST-IIIA(GT2)/ST-OEM-B(GT2)
Expected Lifetime (hrs)	10,000	10,000
Laser Head Dimension (mm)	136x50x47	205x60x60
Laser Head Weight (kg)	0.5	0.8
Power Supply Dimension (mm)	168x164x80/149x80.5x49	168x164x80/149x80.5x49
Power Supply Weight (kg)	1.5/0.5	1.5/0.5

532nm CW DPSS Lasers

Part Number	ST-I-N-532-xxx	ST-II-N-532-xxx	ST-III-N-532-xxx
Wavelength (nm)	532	532	532
Operation Mode	CW	CW	CW
Beam Mode	TEM00	TEM00	TEM00
Output Power	50/100/150/200/300mW	0.5/1/1.5/2/3/4W	5/6/7/8/10W
Average Power Stability (Over 4hrs)	<1%/<3%/<5%	<1%/<3%/<5%	<3%/<5%
Beam Divergence (full angle, mrad)	1.2	1.5	1.5
Beam Diameter at Aperture (mm)	<1.5	<3	<4
Beam Height from Base Plate	27	50	90
Warm-up Time (min)	<10	<10	<10
Cooling	Air	Air	Air
Operation Tem. (°C)	15-35	15-35	15-35
Power Supply	ST-IIA(GT1)/ST-OEM-B(GT1)	ST-IIIA(GT2)/ST-OEM-B(GT2)	ST-IIIA(GT2)/ST-OEM-B(GT2)
Expected Lifetime (hrs)	10,000	10,000	10,000
Laser Head Dimension (mm)	136x50x47	205x60x60	320x164x80
Laser Head Weight (kg)	0.5	0.8	4.5
Power Supply Dimension (mm)	168x164x80/149x80.5x49	168x164x80/149x80.5x49	168x164x80/149x80.5x49
Power Supply Weight (kg)	1.5/0.5	1.5/0.5	1.5/0.5
Warranty (months)	12	12	12

589nm CW DPSS Lasers

Part Number	ST-II-N-589-xxx
Wavelength (nm)	589
Operation Mode	CW
Beam Mode	TEM00
Output Power (mW)	50/100/150/200/300/500/800/1000
Average Power Stability (Over 4hrs)	<1%/<3%/<5%
Beam Divergence (full angle, mrad)	1.5
Beam Diameter at Aperture (mm)	<3
Beam Height from Base Plate	50
Warm-up Time (min)	<10
Cooling	Air
Operation Tem. (°C)	15-35
Power Supply	ST-IIIA(GT2)/ST-OEM-B(GT2)
Expected Lifetime (hrs)	10,000
Laser Head Dimension (mm)	205x60x60
Laser Head Weight (kg)	0.8
Power Supply Dimension (mm)	168x164x80/149x80.5x49
Power Supply Weight (kg)	1.5/0.5
Warranty (months)	12

1064nm CW DPSS Lasers

Part Number	ST-II-N-1064-xxx
Wavelength (nm)	1064
Operation Mode	CW
Beam Mode	TEM00
Output Power (W)	0.5/1/1.5/2/3/4
Average Power Stability (Over 4hrs)	<1%/<3%/<5%
Beam Divergence (full angle, mrad)	<1.5
Beam Diameter at Aperture (mm)	<3
Beam Height from Base Plate	50
Warm-up Time (min)	<10
Cooling	Air
Operation Tem. (°C)	15-35

Power Supply	ST-III(A/GT2)/ST-OEM-B(GT2)
Expected Lifetime (hrs)	10,000
Laser Head Dimension (mm)	205x60x60
Laser Head Weight (kg)	0.8
Power Supply Dimension (mm)	168x164x80/149x80.5x49
Power Supply Weight (kg)	1.5/0.5
Warranty (months)	12