



JIANGSU SKYERA LASER TECHNOLOGY CO., LTD.

江苏天元激光科技有限公司



Company profile

Jiangsu SkyEra Laser Technology Co., Ltd. is a high-tech enterprise co-founded by a group of experts with doctoral degrees. The company was established in 2012 with a total investment of 100 million RMB, which specializes in R&D, manufacturing and industrial applications of high power semiconductor. The company is located at high-tech industrial zone in Danyang City with more than 5,000 square meters of workspace and clean-room facility.

SkyEra Laser is committed to R&D and manufacturing of high power semiconductor lasers. We have a group of high level experts and technical staffs with international reputation in the fields of optoelectronics and high power lasers.

SkyEra Laser has filed 62 patent applications with 27 approved invention and new type patents by the state patent bureau. The company was awarded High-Tech enterprise, the technological SME and private S&T enterprises of Jiangsu Province... With our continuous effort in R&D, manufacturing process optimization, product performance improvement, SkyEra Laser ensures its customers products with the international advanced standard.

SkyEra Laser's products feature with high power, high brightness, diverse styles and long lifetime. With our manufacturing capability, quality control, ensured logistic system and fast response ability, we can customize our products according to the customer's requirements. Our team of R&D technical and sales staffs is able to provide our customers with completed, optimized and targeted solutions to meet different requirements for different applications.

The philosophy of the company is market-oriented, technology leded, benefit centered. We will vigorously promote the development of national high-tech optoelectronic industry, and strive to become a domestic and international leading high-tech enterprise with strong research, manufacturing, application and service in high power laser industry.



Core Values

Vigor, sincerity, glitter and constant renewal



Prospect

SkyEra lights every corner of the world

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📍 Add: High-Tech Innovation Center, NO.99 Zhulin Road, Danyang City, Jiangsu Province, China

☎ Tel: +86 511 8673 8588

📠 Fax: +86 511 8673 9955

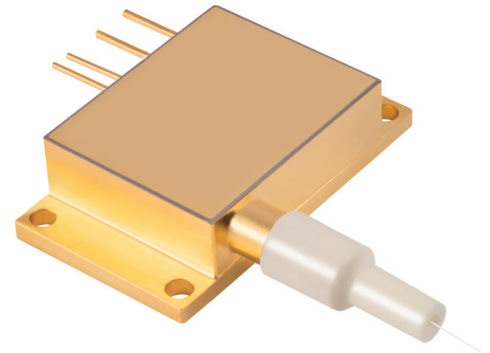
☎ Mob: +86 13952831725

✉ E-mail: sales@skyerlaser.com

🌐 Http: www.skyeralaser.com

9-120W 976nm Wavelength Stabilized Laser Diode Module

SkyEra delivers diode lasers employing professional coupling technology, that enjoy multiple advantages, e.g., compact design, stable output power, high power, high efficiency and convenient packaging. These laser diode modules can provide solutions for fiber laser applications and direct suppliers.



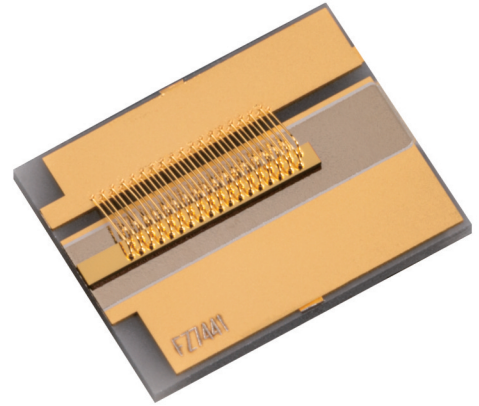
» Application

- Medical
- Printing
- Pump source
- Material processing

Output Power(CW)	9	18	36	54	81	100	120	W
Centre Wavelength ($\pm 0.5\text{nm}$)	976	976	976	976	976	976	976	nm
Spectral Width(FWHM)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	nm
Operating Current	14	14	14	14	14	12	14	A
Operating Voltage	1.7	3.5	6.5	10.0	15.0	22.0	22.0	V
Threshold Current	0.7	0.7	0.7	0.7	0.7	0.7	0.7	A
Convention Efficiency	45	45	45	45	45	45	45	%
Slop Efficiency	0.9	1.8	3.6	5	8	11.5	11	W/A
Core Diameter	105	105	105	105	106.5	106.5	106.5	μm
Numeric Aperture	0.22	0.22	0.22	0.22	0.22	0.22	0.22	—
Fiber length	0.9	0.9	0.9	0.9	0.9	0.9	0.9	M
Protection Tube	0.9	0.9	0.9	0.9	0.9	0.9	0.9	mm
Fiber Bend Radius	37.5	37.5	37.5	37.5	37.5	37.5	37.5	mm
Package	T1V	T3V	T4-S	T60W	T90W	T120W	T120W	—
Operating Temperature	20-30							$^{\circ}\text{C}$
Storage Temperature	-30_70							$^{\circ}\text{C}$
Humidity	5-85							%
Wavelength shift vs. Temperature	0.02							nm/ $^{\circ}\text{C}$
Wavelength shift vs. Current	0.02							nm/A

785-1064nm COS AuSn bonding Laser Diode Module

SkyEra delivers chip on submount diode lasers, employing AuSn bonding and P Down package with multiple advantages of high reliability, stable output power, high power, high efficiency, long lifetime and high compatibility, and are widely applied in the market.



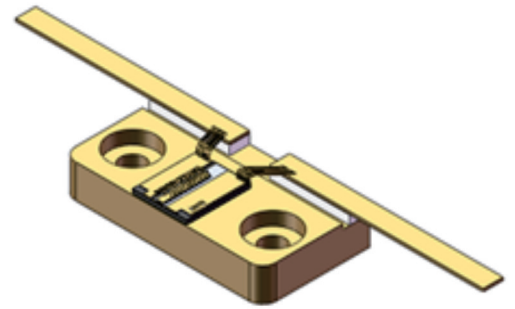
» Application

- Medical
- Printing
- Industry
- Pumping source

Output Power(CW)	2	3	6	10	12	13	18	22	25	10	W
Centre Wavelength	785	793	808	808	915-975	915-975	915-975	915-975	915-975	1064	nm
Spectral Width(FWHM)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	nm
Operating Current	2.5	3.5	6	12	13	14	19	24	26	12	A
Operating Voltage	1.85	1.7	1.8	1.8	1.75	1.75	1.65	1.65	1.65	1.7	V
Threshold Current	0.2	0.3	0.3	1.0	0.4	0.4	0.8	1.0	1.2	0.5	A
Convention Efficiency	60	60	60	55	60	60	60	60	60	60	%
Slop Efficiency	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.0	W/A
Series Resistance	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	Ω
Emitter Size	100	100	100	190	94	94	150	190	230	90	μm
Fax-Axis Divergence(FWHM)	28	28	28	29	29	29	29	29	29	30	°
Fax-Axis Divergence(95%)	55	55	55	58	60	60	59	59	59	58	°
Slow-Axis Divergence(FWHM)	8	8	8	9	9	9	9	9	9	8	°
Slow-Axis Divergence(95%)	10	10	10	10.5	11	11	11	11	11	11	°
Package	COS										—
Operating Temperature	15-55										°C
Storage Temperature	-30_70										°C
Humidity	5-85										%
Wavelength shift vs. Temperature	0.3										nm/°C
Wavelength shift vs. Current	0.7										nm/A

F-Mount Laser Diode Module

SkyEra delivers uncooled single emitter diode lasers, employing AuSn bonding package with multiple advantages of stable output power, high power, high efficiency, long lifetime and high compatibility, and are widely applied in the market.



» Application

- Medical
- Printing
- Industry
- Pumping
- Lighting

Output Power(CW)	2	3	6	10	12	13	18	22	W
Centre Wavelength	785	793	808	808	915-975	915-975	915-975	915-975	nm
Spectral Width(FWHM)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	nm
Operating Current	2.5	3.5	6	12	13	14	19	24	A
Operating Voltage	1.85	1.7	1.8	1.8	1.75	1.75	1.65	1.65	V
Threshold Current	0.2	0.3	0.3	1.0	0.4	0.4	0.8	1.0	A
Convention Efficiency	60	60	60	55	60	60	60	60	%
Slop Efficiency	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	W/A
Series Resistance	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	Ω
Emitter Size	100	100	100	190	94	94	150	190	μm
Fax-Axis Divergence(FWHM)	28	28	28	29	29	29	29	29	$^{\circ}$
Fax-Axis Divergence(95%)	55	55	55	58	60	60	59	59	$^{\circ}$
Slow-Axis Divergence(FWHM)	8	8	8	9	9	9	9	9	$^{\circ}$
Slow-Axis Divergence(95%)	10	10	10	10.5	11	11	11	11	$^{\circ}$
Package	F_MOUNT								—
Operating Temperature	15-55								$^{\circ}\text{C}$
Storage Temperature	-30_70								$^{\circ}\text{C}$
Humidity	5-85								%
Wavelength shift vs. Temperature	0.3								nm/ $^{\circ}\text{C}$
Wavelength shift vs. Current	0.7								nm/A

CS Series 808-9XXnm Uncooled Single Bar Laser Diode Module

SkyEra delivers single bar diode lasers, employing AuSn bonding technology with multiple advantages of low smile, stable output power, high power, high efficiency, long lifetime and high compatibility, and are widely applied in the market.



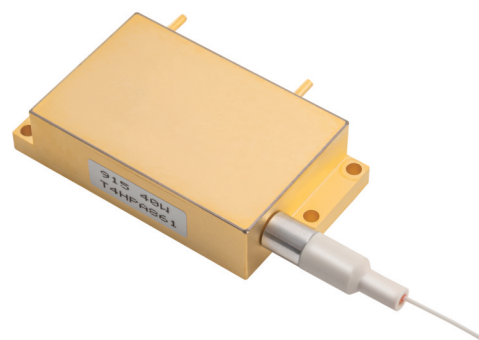
» Application

• Medical • Printing • Industry • Pumping source

Output Power(CW)	50	70	60	60	80	W
Centre Wavelength	808	808	825	915-975	915-975	nm
Spectral Width(FWHM)	3.5	3.5	3.5	3.5	3.5	nm
Operating Current	52	72	62	58	76	A
Operating Voltage	1.8	1.8	1.85	1.8	1.8	V
Threshold Current	8.0	12.0	10.5	8.0	8.0	A
Convention Efficiency	55	55	50	55	55	%
Slop Efficiency	1.15	1.14	1.15	1.15	1.15	W/A
Series Resistance	0.03	0.03	0.03	0.03	0.03	Ω
Emitter Size	150	140	150	100	100	μm
Emitter Number	19	19	19	19	19	—
Fax-Axis Divergence(FWHM)	28	30	35	28	28	$^{\circ}$
Fax-Axis Divergence(95%)	58	60	62	58	58	$^{\circ}$
Slow-Axis Divergence(FWHM)	8	8	8	8	8	$^{\circ}$
Slow-Axis Divergence(95%)	10	10	10	10	10	$^{\circ}$
Package	CS					—
Operating Temperature	15-35					$^{\circ}\text{C}$
Storage Temperature	-30_70					$^{\circ}\text{C}$
Humidity	5-85					%
Wavelength shift vs. Temperature	0.3					nm/ $^{\circ}\text{C}$
Wavelength shift vs. Current	0.1					nm/A

10-60W 792-9XXnm Fiber Coupled Laser Diode Module

SkyEra delivers diode lasers employing professional coupling technology, that enjoy multiple advantages, e.g., compact design, stable output power, high power, high efficiency and convenient packaging. These laser diode modules can provide solutions for fiber laser applications and direct suppliers.



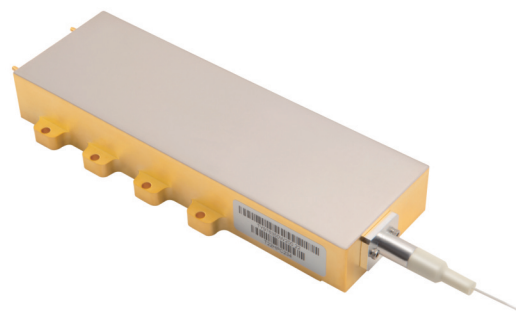
» Application

- Medical
- Printing
- Lighting
- pump source
- Material processing

Output Power(CW)	10	20	30	40	60	60	W
Centre Wavelength	792-975	792-975	792-975	808	808	915-975	nm
Spectral Width(FWHM)	6.0	6.0	6.0	6.0	6.0	6.0	nm
Operating Current	<12.5	<12.5	<12.5	<12	<12	<13	A
Operating Voltage	1.7	3.6	5.4	9.0	12.5	10.5	V
Threshold Current	0.5	0.5	0.5	0.5	0.5	0.5	A
Convention Efficiency	45	45	45	45	45	45	%
Slop Efficiency	0.9	1.8	2.6	3.5	4.5	5.4	W/A
Core Diameter	105	105	105	200	200	105	μm
Numeric Aperture	0.15,0.22	0.15,0.22	0.15,0.22	0.22	0.22	0.22	—
Fiber length	1.0	1.0	1.0	1.0	1.0	1.0	M
Protection Tube	0.9	0.9	0.9	0.9	0.9	0.9	mm
Fiber Bend Radius	37.5	37.5	37.5	50	50	37.5	mm
Package	T1	T3	T3	T5	T8	T60W	—
Operating Temperature	15-55						°C
Storage Temperature	-30_70						°C
Humidity	5-85						%
Wavelength shift vs. Temperature	0.3						nm/°C
Wavelength shift vs. Current	0.7						nm/A

90-1000W 808-9XXnm Fiber Coupled Laser Diode Module

SkyEra delivers diode lasers employing professional coupling technology, that enjoy multiple advantages, e.g., compact design, stable output power, high power, high efficiency and convenient packaging. These laser diode modules can provide solutions for fiber laser applications and direct suppliers.



» Application

- Medical
- Printing
- Pump source
- Material processing

Output Power(CW)	90	130	100	170	200	280	200	300	700	1000 QCW*	W
Centre Wavelength	915-975	915-975	808	808	915	915	808	808	915	975	nm
Spectral Width(FWHM)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	nm
Operating Current	14	14	12	12	14	22	12	12	22	35*	A
Operating Voltage	15.75	21.0	27.0	34.0	36.5	30.0	39.6	68.5	62.5	65	V
Threshold Current	0.5	0.5	1.0	1.0	0.7	1.0	1.5	1.5	1	1.5	A
Convention Efficiency	48	48	45	45	48	48	42	42	48	50	%
Slop Efficiency	8	10.5	13.5	16.5	16.5	16.5	18	33	33	33	W/A
Core Diameter	106.5	106.5	200	200	106.5	135	200	200	200	400	μm
Numeric Aperture	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	—
Fiber length	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	M
Protection Tube	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	N/A	mm
Fiber Bend Radius	37.5	37.5	55	55	37.5	55	55	55	55	100	mm
Package	T90W	T120W	T120W	T320W	PX300	PX300	PX300	TD38	TD38	TD38	—
Operating Temperature	15-35										°C
Storage Temperature	-30_70										°C
Humidity	5-85										%
Wavelength shift vs. Temperature	0.3										nm/°C
Wavelength shift vs. Current	0.7										nm/A

*QCW mode, peak power, frequency: 200Hz, duty cycle: 0.1%

