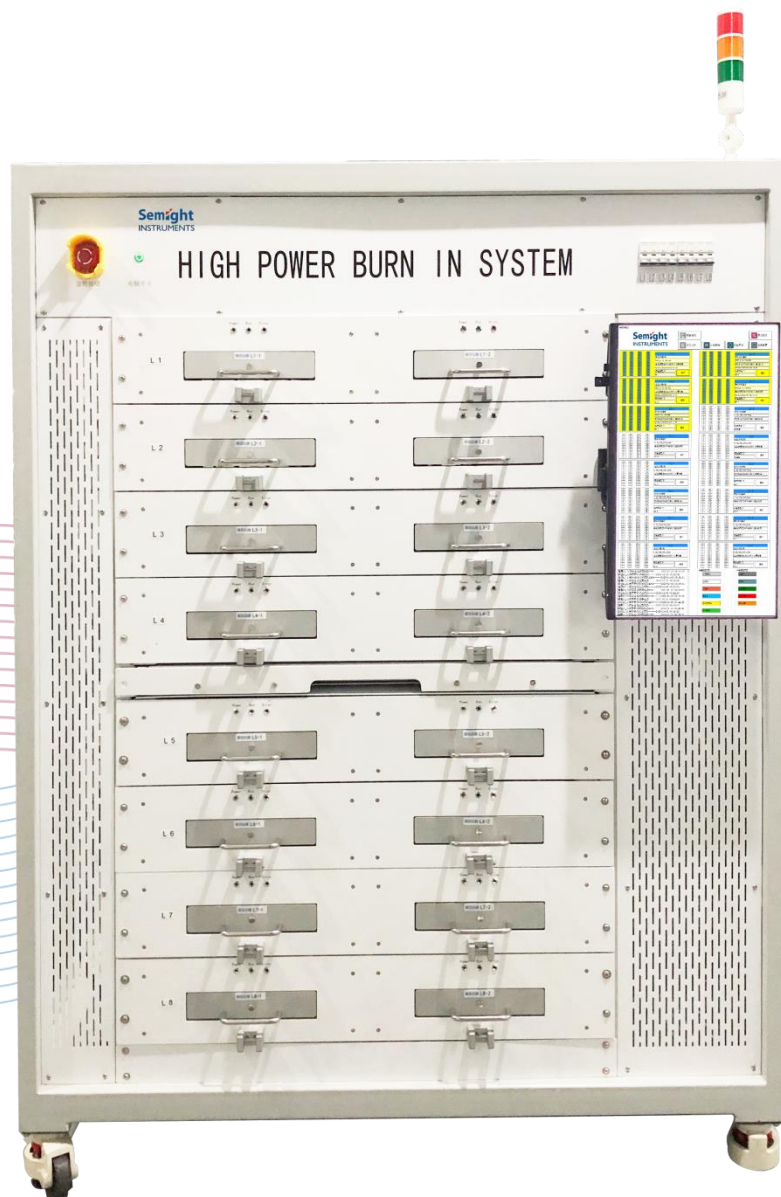


# BI6206

## High Power Laser Burn-In System

Version 1.5



## Product Description

BI6206 is a high-power burn-in system for high power laser diode, such as VCSEL for 3D sensor, pump laser for fiber communication, High power EEL laser for laser display and so on.

BI6206 provide current up to 10A per channel, support both CW and pulse operation. The whole system support total 640 channels, this makes it a good solution for large volume production.

BI6206 also provide in-situ optical power monitoring, this makes it a good solution for R&D life test of high-power laser.

## Key Features

- Up to 10A CW and pulse laser chip driver per channel
- Support pulse current burn-in down to 100 $\mu$ s
- Support 32 drawers, each drawer could work independently
- Whole system support total 640 channels high volume burn-in
- Support in-situ optical power monitoring and LIV sweeping function
- Temperature controlled by TEC + cooling water
- Well-designed heatsink and heat dissipation system
- Great temperature uniformity and accuracy
- Could support burn-in temperature as low as 0°C;
- EOS free under any condition and operation
- Different laser diode only needs to change fixture
- Friendly Software GUI and plenty of software features

## Burn-in and Test Fixture

DUT will be loaded on 10x seats Burn-in fixture. The fixture then will be loaded to the drawer for burn-in. For different DUT only need to change the burn-in fixture which greatly improved the flexibility for the burn in process.

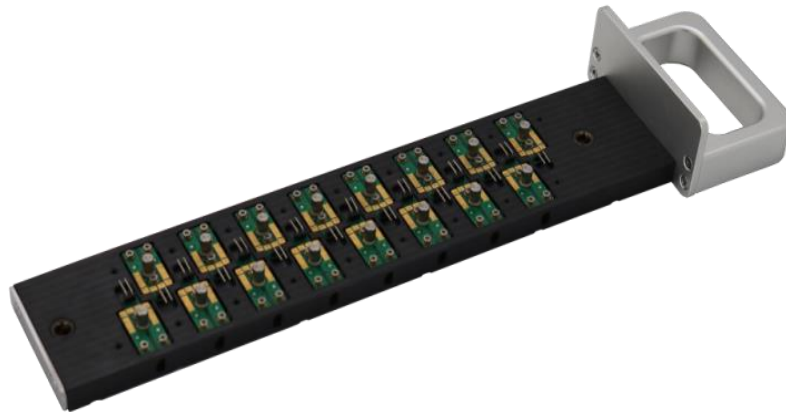


Figure 1, Burn-in drawer and Burn-in fixture type #1

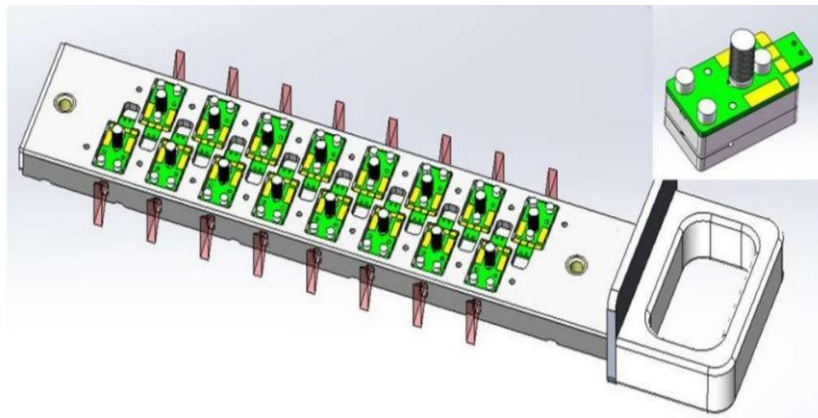


Figure 2, Burn-in drawer and Burn-in fixture type #2

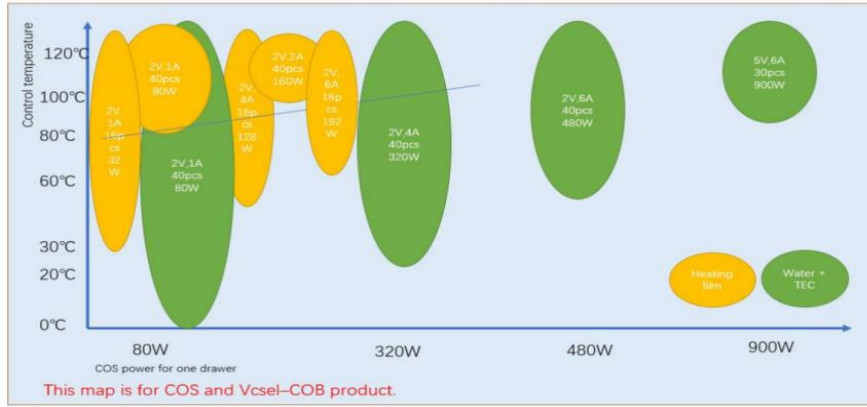


Figure 3, Temperature control method vs Temperature and heat power dissipation mapping

## Technical Specification

System Parameter	System size (mm)	1500L*1250W*2000H
	Weight	<1300 kg
	Drawer quantity	Up to 32 drawers
	System capacity	640 pcs
	System temperature zone	Each drawer working independently
	Power Requirement	380 V, 50/60 Hz, 3 phase 120 A
	Gas requirement	Option to protect laser diode
	Laser device type support	Any kinds of laser with driver current <10 A
	Pogo pin repeat positioning accuracy	<50 μm
	MES interface	Support any MES relative requirement customer

		wants
	Data saving	Raw data and calculated parameter, data file and database.
<b>Temperature</b>	Temperature range	0 °C to 120 °C
	Temperature control method	TEC + cooling water or Heating plate
	Temperature ramp speed	>5 °C/min
	Temperature control resolution	0.1 °C
	Temperature accuracy	±1 °C for 0°C to 60°C; ±1.5°C for 60°C to 100°C
	Temperature uniformity	±1°C for 0°C to 60°C; ±1.5°C for 60°C to 100°C
<b>Electrical</b>	Driver board type	Each channel working independently
	Driver current Range	10 A CW or Pulse
	Pulse width	100 μs, duty cycle 10%-90%
	Current accuracy	0.3% F.S ±10 μA
	Voltage range	0-8 V
	Voltage accuracy	0.3% F.S ±30 mV
	LIV sweeping	Support LIV sweeping and Ith calculation during Burn-in process

Optical	Power range	5 mW-5000 mW
	Power resolution	0.1% F.S.
	Power accuracy	±5% F.S.
	Power stability	± 1%

## Ordering Information

BI6206	Standard Configuration
Options:	
LW	0°C Low temperature option
VS	VCSEL Array
PM	With in situ power monitoring

## Contact us

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\*This information is subject to change without notice.