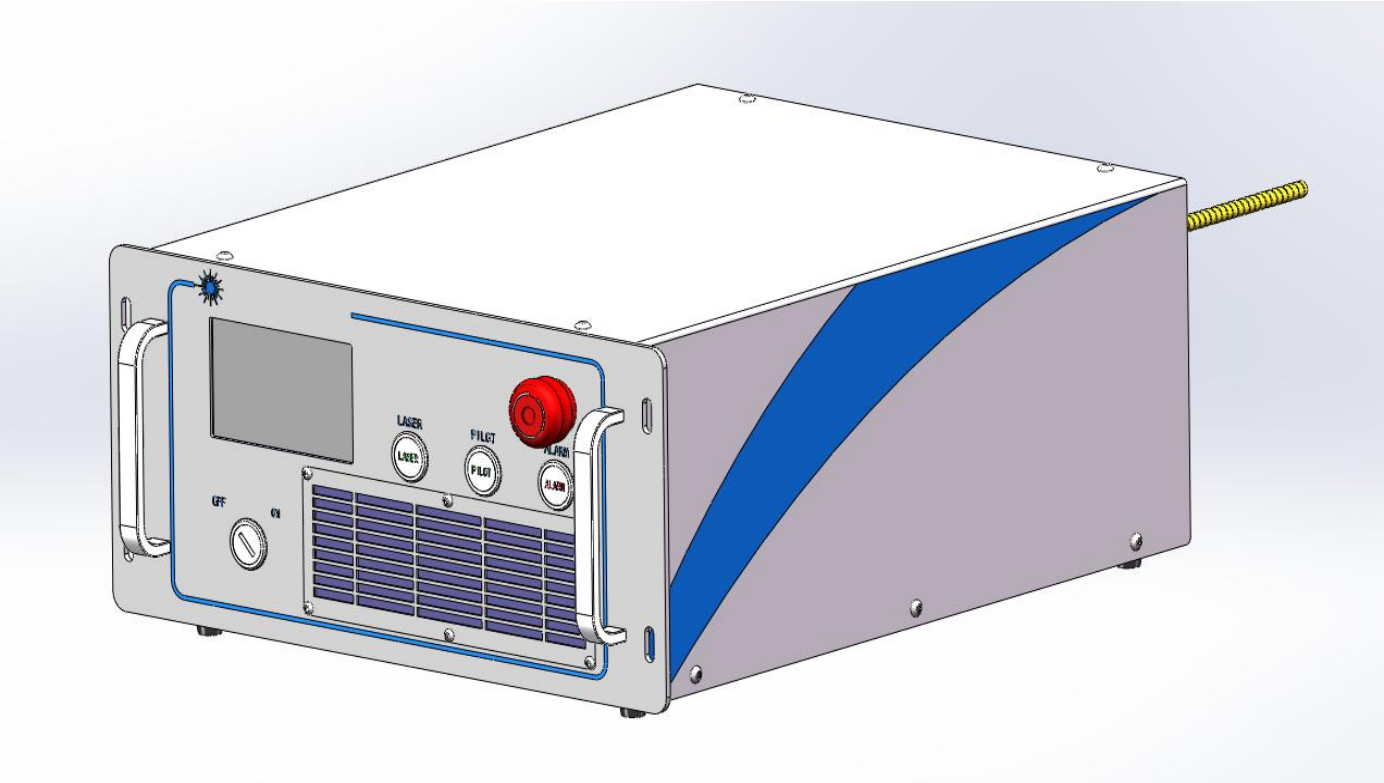
# 980nm High power semiconductor laser system

## 1. Product features and applications




| | |
|---|---|
| **Product features** | ◆ Out put power 100W |
| | ◆ Fiber 200μm/0.22NA |
| | ◆ Center wavelength980±10nm |
| **Applications** | ◆ Medical |
| | ◆ Material processing |

## 2. parameter (25℃)

| | Typical | Unit |
|---|---|---|
| **Optical parameters** | | |
| Output power | 100 | W |
| Power range | 0-100 | W |
| Threshold current | 1.3 | A |
| Operating current | 15.5 | A |
| Operating voltage | 13.6 | V |
| Min Pulse Width | 50 | μs |
| Max modulation rate | 10K | Hz |
| Rising time | <15 | μs |
| Max power consumption | <300 | W |
| Central wavelength | 980±10 | nm |
| Aiming light | 650 | nm |
| Output power | 2 | mw |
| Instability of output power | ＜3%@24h | |
| Input AC voltage | 200-240（50HZ） | V |
| **Fiber parameters** | | |
| Fiber core diameter | 200 | μm |
| Metallic Protective tube diameter | 7 | mm |
| Numerical Aperture | 0.22 | - |
| Fiber length | 1-5 | m |
| Connector | SMA905-SMA905 | |
| Cooling mode | Air cooling | |
| **Function** | | |
| RS232：Serial port adjustment mode | Remote control | |
| Local control | button and screen operation | |
| PD detection closed-loop feedback | If over PD current,the system stop lasing | |
| Temperature detection closed-loop feedback | If over temperature,the system stop lasing | |
| AD control mode | 0-10V analog modulation | |
| Work mode | CW/Pluse | |

## 3. Operating environment and working conditions

| | Min | Max | Unit |
|---|---|---|---|
| Operating Temperature | -10 | 40 | ℃ |
| Operating Relative Humidity | - | 75 | % |
| Storage Temperature | -20 | 80 | ℃ |
| Storage Relative Humidity | - | 90 | % |

## 4. Dimensions (mm)