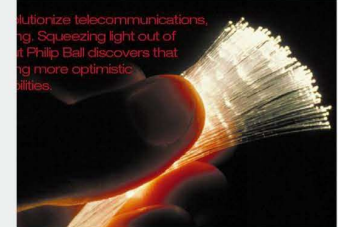
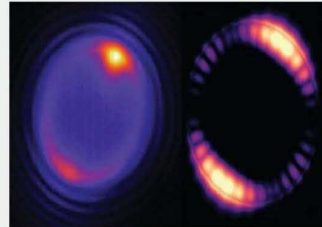


Thulium doped Fiber Amplifier - TDFA

Thulium doped fiber amplifier TDFA uses single mode all fiber amplifying technology. It features high average output power, broad gain bandwidth, low noise and insensitive to polarization. By choosing different amplifier types, the amplification requirement can be met in 1880 ~2050 nm wavelength. And OEM option is available upon request.



Key Features :

- Wide gain bandwidth
- High signal-to-noise ratio
- Excellent Power Stability
- High power output

Applications :

- Mid-IR frequency conversion
- Mid-IR spectroscopy analysis
- Silicon photonics
- Fiber communication system

» Main Specification:

Laser Parameters

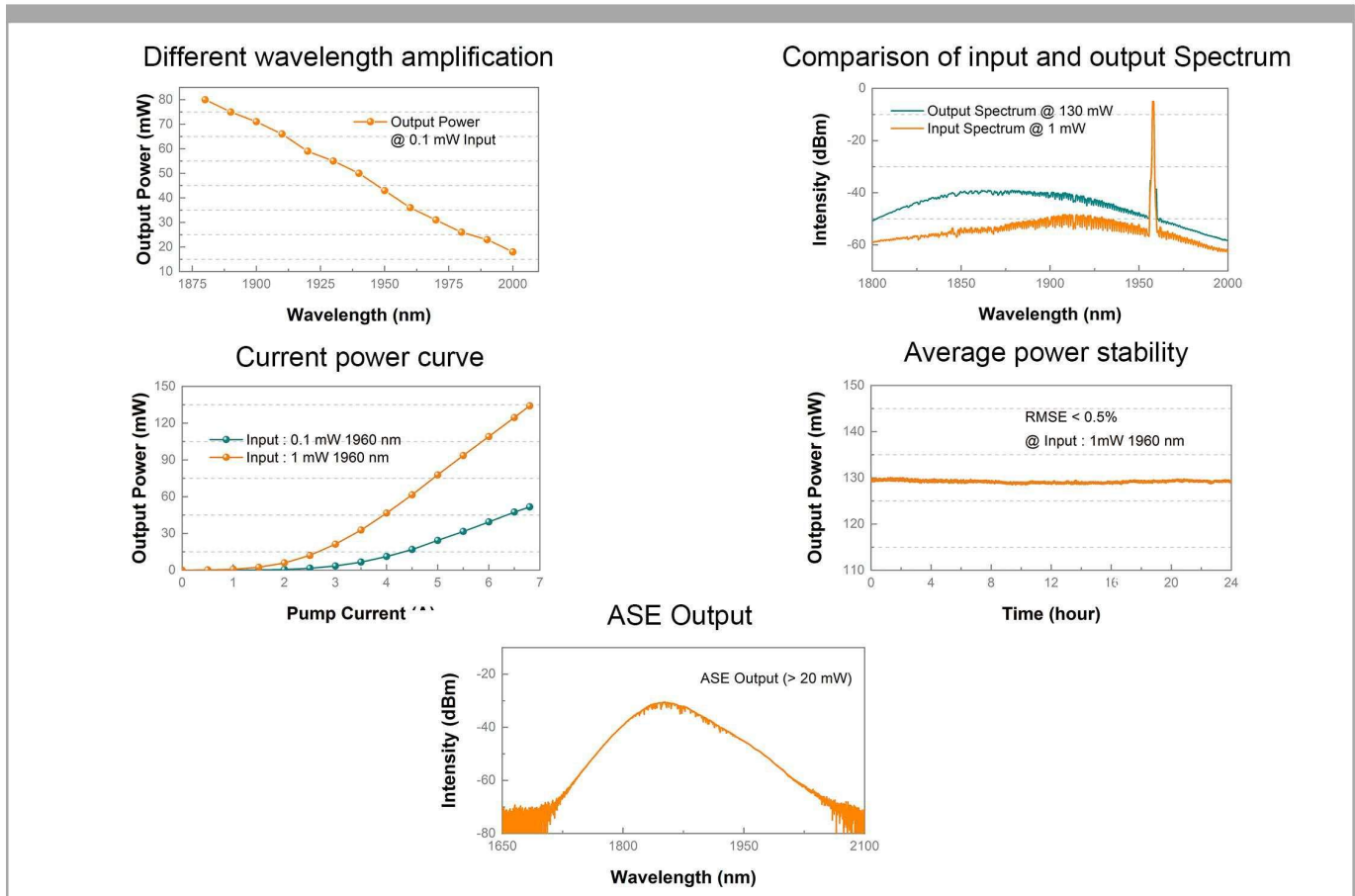
Operating Wavelength	nm	1800-2000
Gain Factor	dB	>20
Average Power	mW	>100
Average Power Stability	% RMS	<0.5 (12h@25°C)
Beam Quality		TEM00, M ² <1.1
Output Polarization		Random/Linear Polarization
Output Fiber		SMF28e/PM1950 Fiber,FC/APC Connector

Electrical, Environmental and Mechanical Parameters

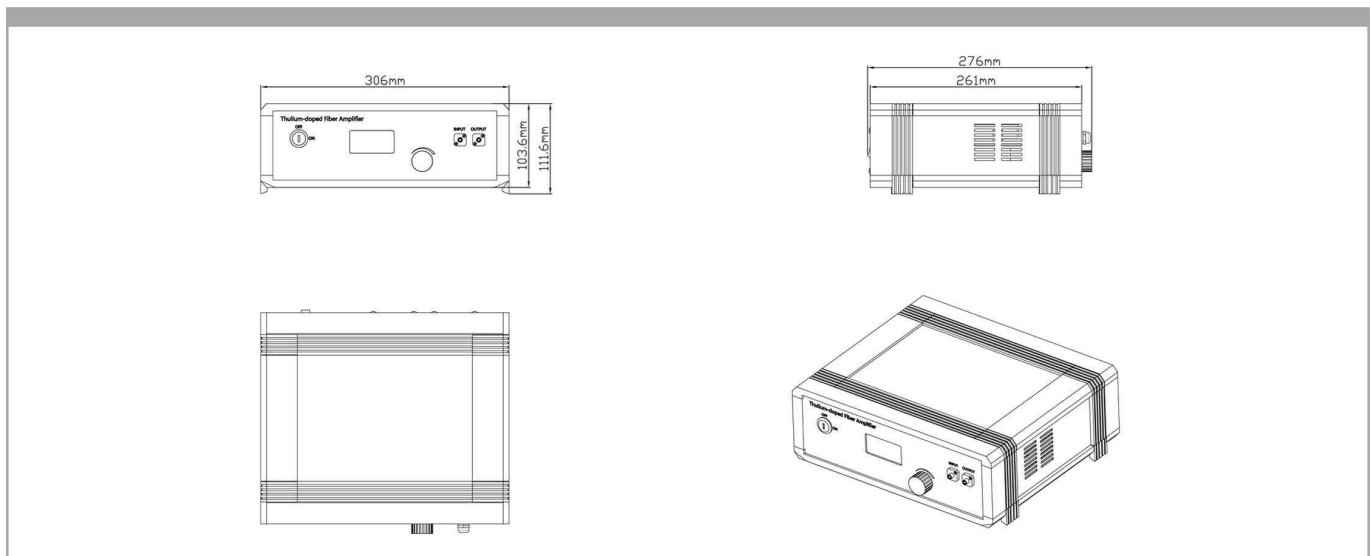
Supply Voltage	AC	AC 100-240(50Hz/60Hz)
Operational Temperature Range	°C	15~35
Operational Humidity Range	%	20~80 (Non-condensing)
Storage Temperature Range	°C	-20~+50
Storage Humidity Range	%	20~80 (Non-condensing)
Weight Laser Head	kg	36
Dimensions Laser Head	mm(L×W×H)	293×240×107
Cooling		Air-cooled

Gain at Different Wavelengths

Test Data :

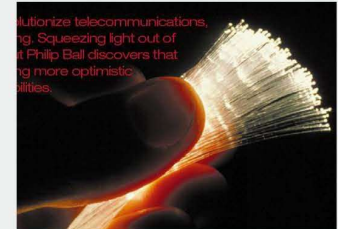
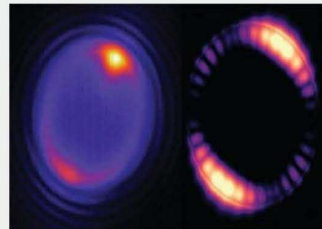


Machine Drawing



High-power Thulium doped Fiber Amplifier - TDFA HP

TDFA HP is a high-power Tm-doped fiber amplifier developed by NPI Lasers. It uses all-fiber amplification technology and features high output power, wide operating wavelength range and low noise. The amplifier wavelength and type is selectable to meet users' power amplification requirements within wavelength range of 1880-2000nm. Polarization maintained version of the laser unit is also available.



Key Features :

- Wide gain bandwidth
- High signal-to-noise ratio
- Excellent Power Stability
- High power output

Applications :

- Mid-IR frequency conversion
- Mid-IR spectroscopy analysis
- Silicon photonics
- Fiber communication system

» Main Specification:

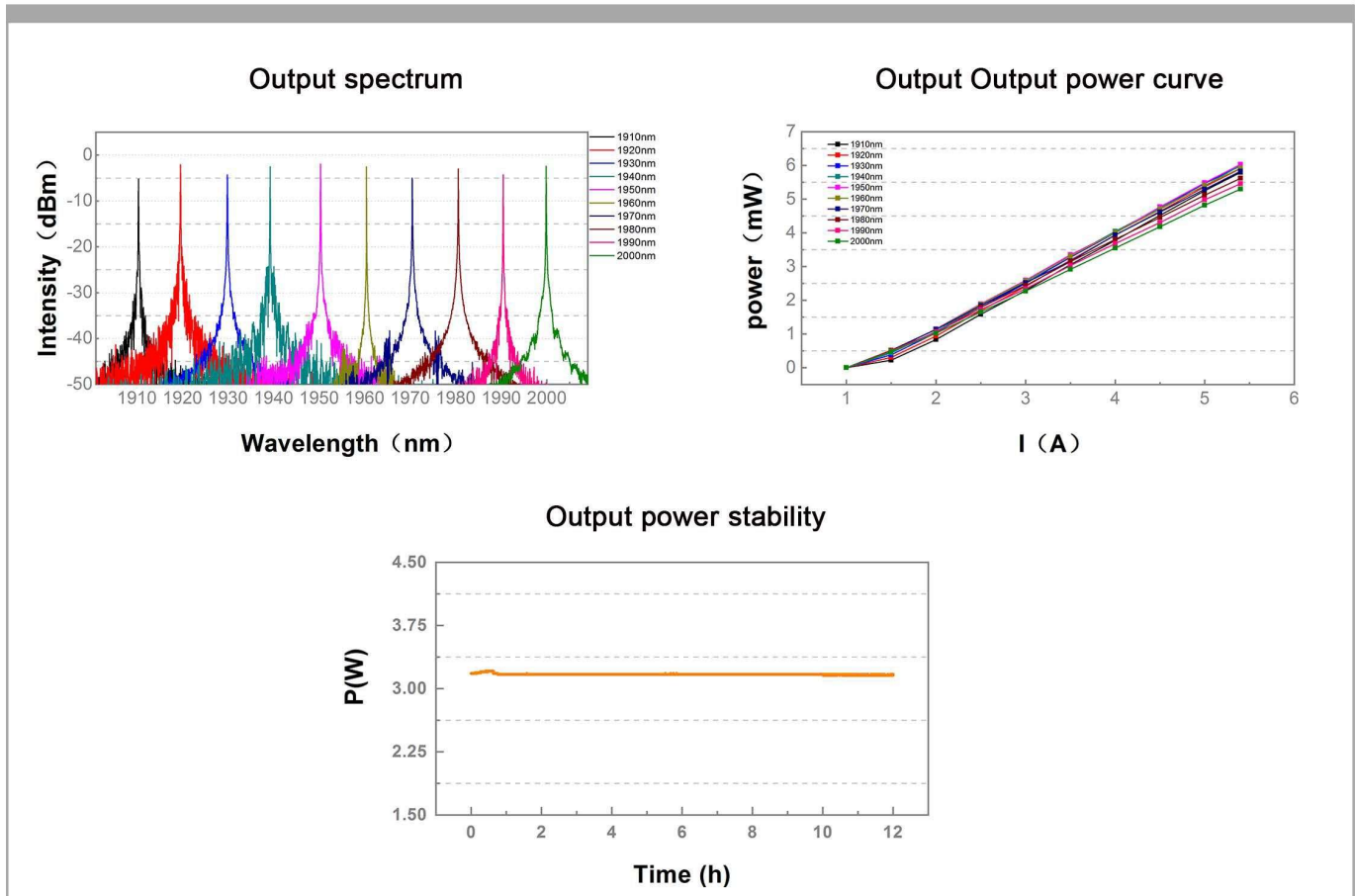
Laser Parameters

Operating Wavelength	nm	1900-2050
Input Power	mW	10
Average Power	W	1,3
Wavelength Tuning Accuracy	nm	1950
Noise Figure	dB	<8
Beam Quality		TEM00, M ² <1.1
Output Fiber		SM-28e/2000 Single Mode Fiber,1m Pigtail /FC/PC or FC/APC Connector

Electrical, Environmental and Mechanical Parameters

Power Consumption	Watt	<20
Supply Voltage	AC	AC 100-240(50Hz/60Hz)
Operational Temperature Range	°C	15~35
Operational Humidity Range	%	20~80 (Non-condensing)
Storage Temperature Range	°C	-20~+50
Storage Humidity Range	%	20~80 (Non-condensing)
Weight Laser Head	kg	4.6
Dimensions Laser Head	mm(L×W×H)	336×284×113
Cooling		Air-cooled

Test Data :



Machine Drawing

