

Superstable picosecond fiber laser

PerciLasers The ultra-stable picosecond fiber laser launched can achieve high-coherence laser pulse output with narrow pulse width, high peak power and high repetition frequency. It is small in size, does not require thermal management, and has high output beam quality (single-mode output), which can meet many application requirements such as industrial-grade ultrafast laser processing.

Peculiarity

- | Narrow pulse width, narrow spectrum
- | Good durability
- | Excellent beam quality
- | L-linear polarization
- | Power stabilization

Apply

- | High power ultrafast laser seed source
- | Ultra-fast imaging
- | Precision measurement
- | Optical frequency comb



Optical parameter				
Model number	FL-PS-1064-xx ⁽¹⁾ -S			
Central wavelength	1064.00nm ⁽²⁾			
Operation mode	pulse			
Pulse width	<6ps	<8ps	<12ps	<20ps
Pulse energy	0.5-3nJ			
Average power	6-200mW			
Maximum peak power	>350W			
Spectral width	<0.5nm			
Repetition rate	20-120MHz			
polarization	Linear polarization, > 100: 1			
Power stability	<1% RMS@3hrs			
Beam quality	TEM00, M ² <1.1			
Output mode	Fiber jumper output			
Cooling mode	Air cooling			

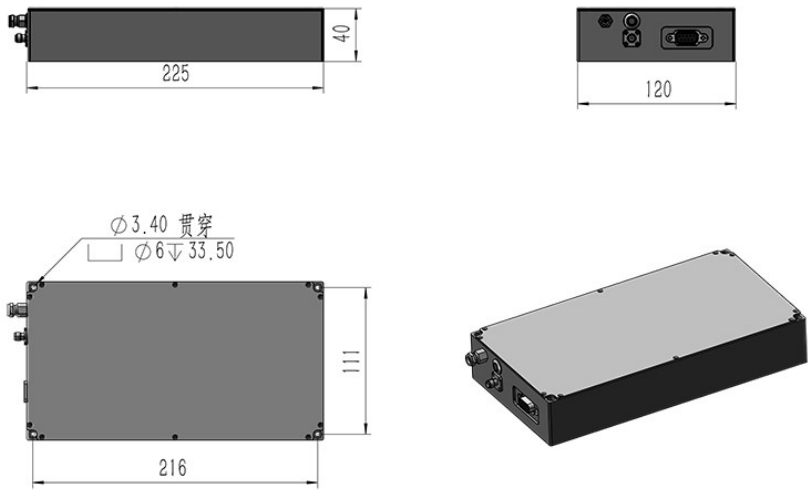
(1)xxIndicates pulse width, such as 8ps pulse width corresponding to the model is FL-PS-1064-8-S, other pulse width can be specified.

(2) Other center wavelengths can be customized

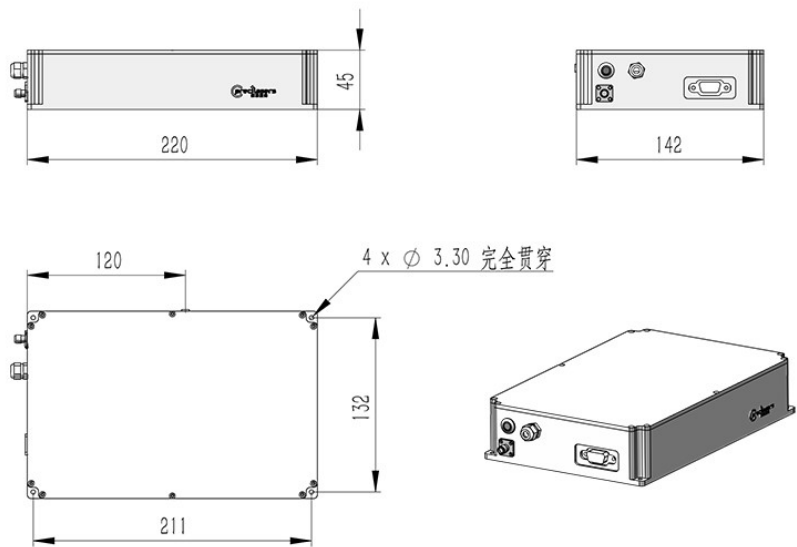
option	
Frequency reduction option	Optical fiber AOM and selector are configured to reduce laser frequency

Other parameters	
Operating temperature	20-25°C
Power supply	12VDC/5A

❖ Chassis dimension drawing

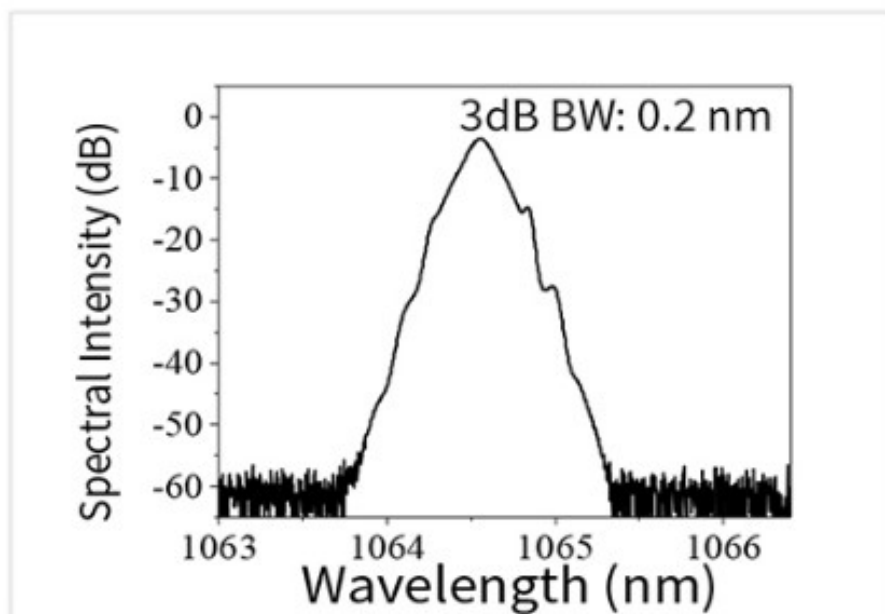


FL-PS-1064-xx-S Dimension drawing

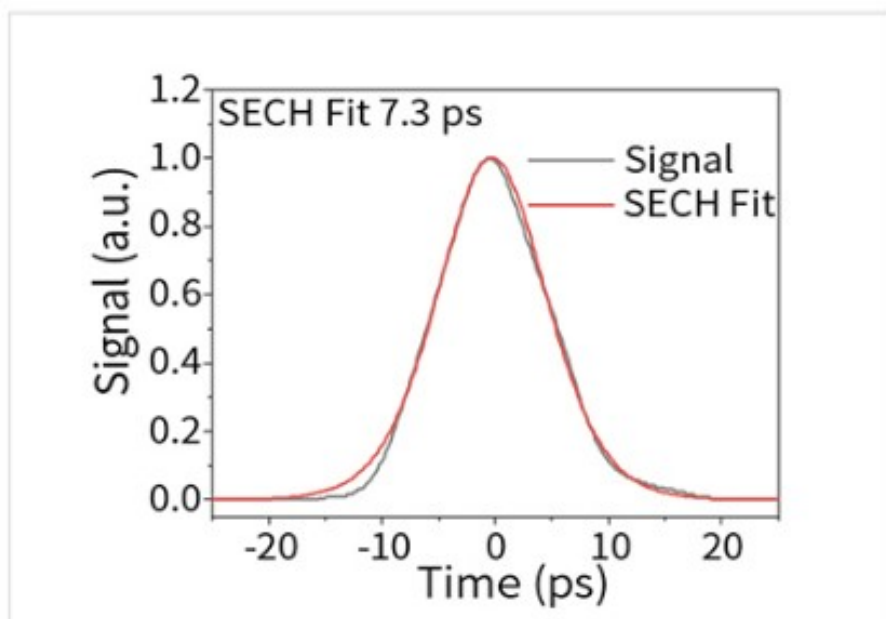


FL-PS-1064-xx-S Dimension drawing (AOM)

❖ Performance index test (typical value)



Output spectrum test diagram



Output pulse train test diagram



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⚠ Warning

LASER RADIATION
 AVOID EYE OR SKIN EXPOSURE TO
 DIRECT OR SCATTERED RADIATION
 CLASS 4 LASER PRODUCT