

# FemtoPower 1060-fs

High power frequency converted femtosecond ultrafast fiber laser

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## KEY FEATURES

- Wavelength: 1064nm
- Output power up to 5W
- Repetition rate: 40-100MHz
- Pulse width: <300fs
- Small footprint
- Maintenance Free

## APPLICATIONS

- Multi-photon microscopy
- Fundamental study
- Micromachining
- Bio-medical
- Metrology



## DESCRIPTION

FemtoPower1060-fs are passively mode-locked 300fs fiber lasers operating in the 1060nm spectral range and delivering up to 5 W of average power.

The lasers consist of a master source, high power fiber amplifier and optical pulse compressor.

The lasers are turnkey, air-cooled, maintenance free and do not require any adjustments.

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## TYPICAL SPECIFICATION

Parameters	Unit	FP1060-1-fs	FP1060-2-fs	FP1060-5-fs
Operating wavelength	nm	1064	1064	1064
Pulsewidth	fs	<300	<300	<300
Pulse bandwidth	nm	<25	<25	<25
Repetition rate (fixed)	MHz	40-100	40-100	40-100
Average power	W	1	2	5
Beam quality parameter	M <sup>2</sup>	<1.3	<1.3	<1.3
Beam diameter	mm	2	2	2
Beam divergence	mrad	<1	<1	<1
Amplitude noise	%	<2	<2	<2
Power consumption	W	100	120	150
Laser chassis dimensions (WxLxH)	mm	250x300x120	250x300x120	250x300x120
Laser head dimensions (WxLxH)	mm	150x280x95	150x280x95	150x280x95
Weight	kg	<10	<10	<12

## OPTIONS

A variety of customised options such as:

- Wavelength 1030nm, 1045nm, 1053nm
- Pulsewidth 300fs to 20ps
- Output power 0.5W to 5W

are available on customer request.

**CAUTION:** THIS IS CLASS 4 LASER PRODUCT AND USE OF CONTROLS AND ADJUSTMENTS OTHER THAN THOSE SPECIFIED IN THE PRODUCT MANUAL MAY RESULT IN HAZARDOUS LASER RADIATION EXPOSURE

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