

Pulsed Fiber Laser Series, 1550nm High energy

Model no.: PFL-1550-H100



Description

This Pulsed Fiber Laser generates high energy nanosecond pulses at 1550 nm. It is based on a MOPA (Master Oscillator Power Amplifier) architecture that uses proven subsystems and proprietary laser pulse generation, triggering, gating and ASE suppression technologies. The laser incorporates real-time stabilization, monitoring and control electronics and firmware that continuously monitor and optimize laser operation.

Optical parameters (at 25°C)

Parameter	Specification	Unit
Center wavelength	In range 1540 – 1560	nm
Spectral width (FWHM)	< 20	nm
Pulse width (FWHM) *	10 ±2	ns
Pulse repetition frequency	Single-shot to 20	kHz
Peak power	> 10	kW
Pulse energy	> 100	µJ
Beam propagation factor (M ²)	< 1.5	-
Output polarization	Random	dB

* pulse width range up to 200ns available

Optical connections

Cable length	1 m
Fiber termination	Output beam collimator

Electrical parameters

Parameter	Specification	Unit
Power supply	+5 and +12	V

Mechanical and environmental specifications

Parameter	Specification	Unit
Operating case temperature	+5 to +55	C
Storage temperature	-10 to +60	C
Humidity	0 - 95, Non-condensing	%
Dimensions (WxDxH)	205 x 255 x 95 (without fan module attached)	mm