

# High Pulse Energy Fiber Laser

## Product Description

Agiltron's Ytterbium fiber laser (AYFL) represents a new generation of diode pumped fiber laser which uses our new high efficient pumping combining and unique tunable Q-switching techniques to generate the high pulse energy laser with high beam quality.

The AYFL features a wide selectivity on pulse duration, repetition rates and peak powers. This laser provides a collimated laser beam and can be focused into a small spot with few micron diameter. The all-fiber based design and armed metal fiber cable allow this compact laser module be able to operate under various industrial environments.

The AYFL module can be directly built into laser machine systems for material processing, such as laser welding, laser cutting and laser drilling. It is specially suitable for laser marking system.

## Features

- High pulse energy
- High peak power
- Tunable pulse duration
- Tunable repetition rates
- Fiber delivery
- Collimated output beam

## Specifications

Parameters	Unit	AYFL-0	AYFL-1
Mode of operation		Pulsed	Pulsed
Pulse Energy	mJ	0.5	1
Polarization type		random	random
Laser wavelength	nm	1060-1080	1060-1080
Average output power	W	10	20
pulse repetition rates	kHz	1-100	1-100
Pulse duration	ns	60-200	60-200
Long term power stability	%	<5	<5
Beam quality (M2)		<1.5	<1.5
Operating voltage	V	110/220	110/220
Max. Power consumption	W	150	210

## Applications

- Laser marking
- Micromachining
- Laser welding
- Laser drilling
- Laser cutting

## Order Information

AYFL-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Pulse Energy	pulse duration	repetition rates	Fiber Length	Collimated Beam Diameter
	0.5 mJ=0 1 mJ=1	60 ns =60 100 ns=100 200 ns=200	10 kHz=01 100 Khz=10	1 m=1 3m=3 5m=5 Special=0	0.5 mm=0 1 mm=1 3mm=3 5 mm=5