

High peak power MOPA pulsed fiber laser 80W/150W

一、 Product introduction:

YNFL-80 / 150-1-hpp pulse width adjustable fiber laser is a high-power fiber laser using direct electric modulation semiconductor laser as seed source (MOPA). It has perfect laser characteristics and good pulse shape control ability. Multiple power options, compact structure. It is easy to operate and maintenance free, and can be directly integrated into user equipment; With the characteristics of fast response, excellent output beam quality, large single pulse energy and high peak power output, the laser can better meet the needs of a wide range of laser applications in the market.

二、 Product features

1. Independently adjustable working pulse width: 1-120ns
2. Working frequency is independently adjustable, high repetition frequency: 10000khz
3. Single pulse energy > 1.0mj
4. High peak power, up to 100kW
5. Excellent output beam quality
6. Both pulse and CW laser output modes
7. Stable output in high temperature and low temperature environment, high stability and reliability
8. Water cooled, maintenance free

三、 Product application

1. Glass punching
2. Special shaped metal spot welding
3. Stripping anode and coating
4. Ceramic Scribing and resistance fine adjustment
5. Glass dicing and polar lug cutting
6. Scribing processing of photovoltaic single crystal / polycrystalline silicon wafer
7. Metal deep carving, marking, welding and cutting
8. Continuous processing of high reverse materials, etc

四、 Product parameters

Product model	Unit	YNFL-80-1-HPP	YNFL-150-1-HPP
Central wavelength	nm	1050-1070	
Average power	W	80	150
Highest peak	KW	100	
Pulse width	ns	1-120	
Frequency range	KHz	5-10000	
Maximum pulse energy	mJ	1	
Beam quality	-	<1.4	
Spot roundness	%	>90	
Spot diameter	mm	4-10 (Customizable)	
Power stability	%	<5	
Polarization direction	-	Random	
Armored cable diameter	mm	10	
Length of armor cable	m	2 (Customizable)	
Working voltage	V	48	
Working current	A	<8	<13
Working temperature	°C	0-35	
Storage temperature	°C	-10-60	
Refrigeration mode	-	Water cooling	
Overall size	mm	439×397×88+360×200×73	