Product Specifications

Product Name	Femtosecond Laser
Model	Spinel-1030-50E5



Spinel-A0 Series Femtosecond Laser Spinel-1030-50E5

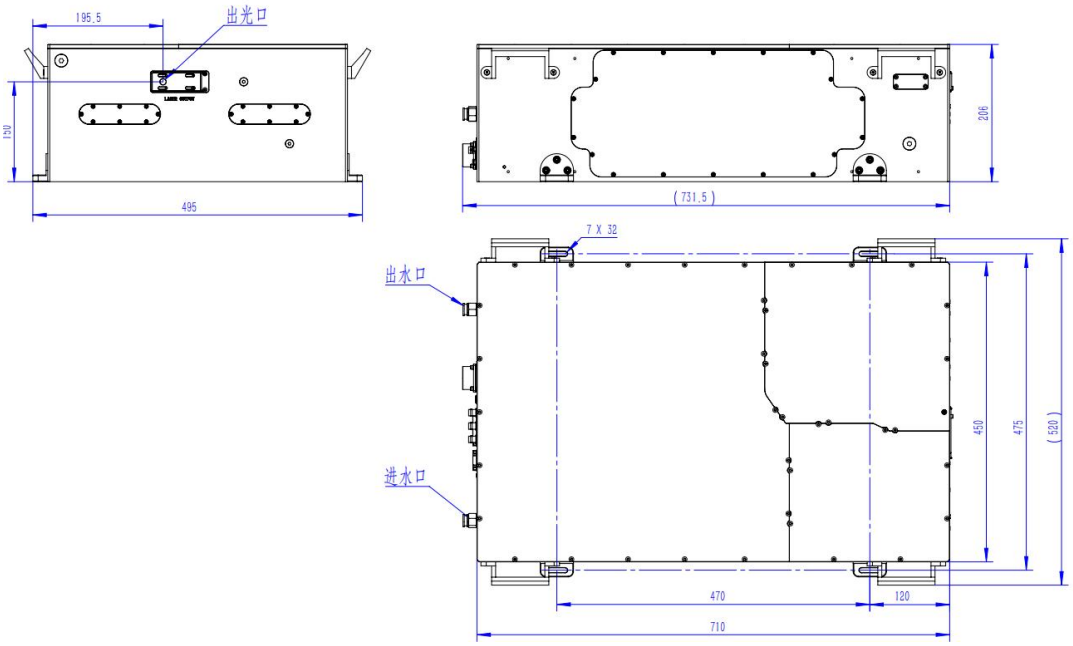
1. Specifications

Model	Spinel-1030-50E5
Wavelength	1030nm
Base repetition rate	100kHz
Pulse repetition rate	1kHz – 1000kHz
Pulse Duration	<550fs
Average Power	>50W@100kHz
Maximum Pulse Energy	> 500μJ@100kHz
Average Power Stability	<1.0%rms over 8hours
Pulse-to-Pulse instability	<1.5% rms
Burst Mode	2-5 pulse selectable
Beam Quality	M^2 <1.30
Beam Divergence	<2mrad (Full Angle)
$1/e^2$ Beam Diameter	3.0± 0.5 mm(@output windows 50cm)
Beam Roundness	>93%
Pointing stability	<50.0μrad
Polarization Direction	Vertical
Polarization Ratio	>100:1
Cooling	Water-cooling (20℃)
Ambient Temperature	20 – 30℃
Relative humidity	10%-80% (non-condensing)
Warm-up Time	<20 min
Operating Voltage	110 – 260V/AC
External Trigger	GATE、TRIG、POD
Laser head weight	<70kg
Rated power	<3000VA

Spinel-A0 Series Femtosecond Laser Spinel-1030-50E5

2. Mechanical Schematic

(1) Laser Head Dimensions (mm)



(2) Power Supply Dimensions (mm)

