FS-G-1030A/1-10W

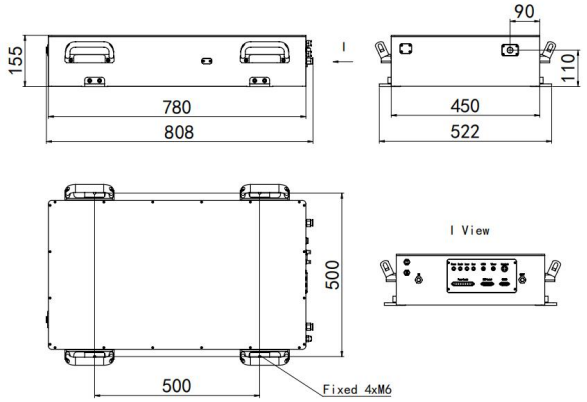
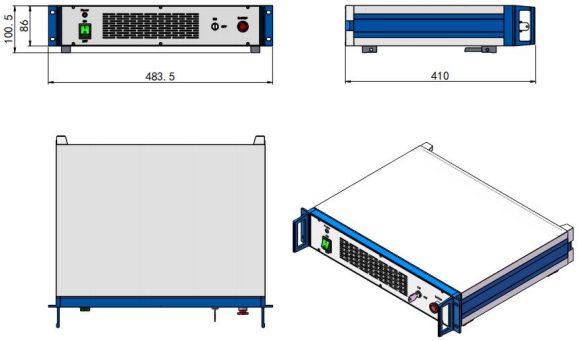
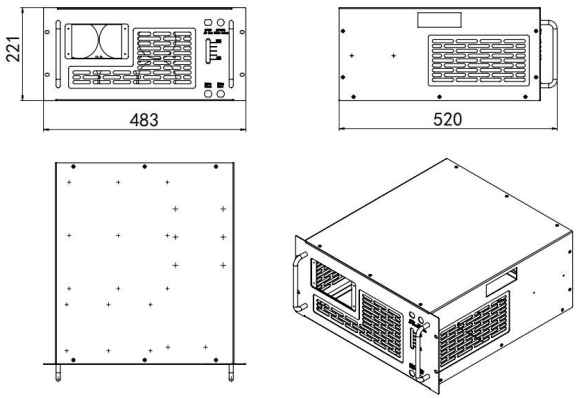
FEMTOSECOND PULSED LASER AT 1030nm

Femtosecond pulsed laser at 1030nm is made features of short pulse duration, high repetition rate, high stability and good beam quality, which is used in sapphire marking, ceramic cutting, semiconductor cutting, film scribing,

SPECIFICATIONS

Wavelength (nm)	1030±5
Average power (W)[1]	1-10 (10W@200kHz)
Single pulse energy (μJ)	1-100 (100μJ@50kHz)
Rep. rate (kHz)	50-1000
Pulse duration (fs)[2]	<800
Peak power (MW)[3]	1-125
Ave power stability (rms, 4 hours±3℃)	<2%, <1%
Warm-up time (minutes)	<10
Transverse mode	TEM_{00}
M^2 factor	<1.3
Beam divergence, full angle (mrad)	<1.0
Beam diameter at the aperture ($1/e^2$,mm)	<3
Polarization ratio	>100:1 Vertical
Beam height from base plate (mm)	110
Cooled method	Water cooled
Operating temperature (℃)	15-35
Power supply (100-240VAC)	RAD1PS
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY	WATER CHILLER
		
808 (L)×522 (W) ×155(H) mm³,85kg	410 (L) ×483.5 (W) ×110.5 (H) mm³,4.5 kg	520 (L) ×483 (W) ×221 (H) mm³,22kg

1. Integrated AOM for fine power control and fast power modulation, and the power loss is 15%.
2. The pulse width is adjustable within the range of 800fs to 10ps.

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