

Parameter	HELIOS-10W-HP	HELIOS-20W-HP
Maximum output power	10W	20W
Maximum single pulse energy	400μJ	
Pulse duration	<250fs (190fs Optional)	
Pulse width adjustment range	250fs - 10ps (190fs-10ps Optional)	
Repetition frequency range <sup>1)</sup>	25kHz - 1MHz (25kHz - 1MHz Optional)	50kHz - 1MHz (50kHz - 1MHz Optional)
Pulse selection <sup>2)</sup>	Single shot - 100kHz (Single shot - 1MHz) Optional	
Wavelength	1036 ± 5nm	
Polarization	Linear polarization	
Beam quality	M <sup>2</sup> <1.2	
Beam diameter	5±1mm	
Pulse pointing stability	<20 μrad/°C	
Pre-pulse contrast	<1:1000	
Post-pulse contrast	<1:500	
Pulse energy stability	<1% RMS @8h	
Long-term power stability	<0.5% RMS @24h	
Dimensions (L×W×H)	668 × 400 × 223mm (L×W×H)	
Weight (kg)	61kg	
	<b>Expansion Options</b>	
Harmonic output	Integrable, 516nm, 345nm, 259nm	
Optical parametric amplification output	Integrable, 210 - 16000nm	
MPC short pulse output	Integrable, output pulse width <35 fs, energy transmission efficiency >90%	
Operating modes	PSO, POD, Gate, Burst, and other modes	
Remaining weight (kg)	24kg (Water-Cooled Machine) +2kg (Frequency Doubling)	
Power supply requirements	Laser head: AC 220V/10A; Water-cooled machine: 220V/0.6-7.7A/1.26kW(CWUP-20AI)	

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