

Parameter	HELIOS-10W-HE	HELIOS-20W-HE
Maximum output power	10W	20W
Maximum single pulse energy	1mJ	2mJ
Pulse duration	<250fs (190fs Optional)	
Pulse Width Adjustment range	250fs to 10ps (190fs Optional)	
Repetition rate range ¹⁾	10kHz - 1MHz (10kHz-1MHz) Optional	
Pulse selection ²⁾	Single shot - 100kHz (Single shot - 1MHz) Optional	
Central wavelength	1036 ± 5nm	
Polarization	Linear polarization	Vertical
Beam quality	M ² <1.2	
Beam diameter	5±1mm	6.2±0.6mm
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)	871 × 418 × 211mm (L×W×H)
Weight (kg)	61kg	71kg
Expansion Options		
Harmonic output	Integrable, 516nm, 345nm, 259nm	
Optical parametric amplification output	Integrable, 210 - 16000nm	
MPC short pulse output	Integrable, output pulse width<50fs, energy transmission efficiency >90%	
Operating modes	PSO, POD, Gate, Burst, and other modes	
Remaining weight (kg)	24kg (Water-Cooled Machine) +5kg (Frequency Doubling)	
Power supply requirements	Laser head: AC 220V/10A ; Water-cooled machine: 220V/0.6-7.7A/1.26kW (CWUP-20AI)	