

Parameter	HELIOS-40W-HP
Maximun output power	40W
Maximun single pulse energy	400μJ
Pulse duration	<250fs
Pulse Width Adjustment range	250fs - 10ps (190fs Optional)
Repetition rate range ¹⁾	10kHz - 100kHz (10kHz-1MHz Optional)
Pulse selection ²⁾	Single shot - 100kHz (Single shot - 1MHz) Optional
Wavelength	1036 ± 5nm
Polarization	Vertical
Beam quality	M ² <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)	885 × 455 × 221mm (L×W×H)
Weight (kg)	77kg
	Expansion Options
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%
Remaining weight	24kg (Water Chiller) +2kg (Frequency Doubling)
Power requirements	Laser head: AC 220V/10A ; Water chiller: 220V/0.6-7.7A/1.26kW (CWUP-20AI)