

AURORA-DATASHEET

Parameter	AURORA-HP	AURORA-HE
Tuning range	630 – 1030nm (Signal) 1030 – 2600nm (Idler)	
Maximum pump power	80W	
Pump pulse energy	10 - 200uJ	200 - 2000uJ
Peak conversion efficiency	> 7% (Signal)	> 7% (Signal)
	> 3.5% (Idler)	> 3.5% (Idler)
Pulse duration	120~250fs	
Spectral bandwidth	100cm-1 - 150cm-1	
Long-term power stability	< 2% RMS@ 750 nm	
Pulse-to-pulse energy stability	< 2% RMS@ 750 nm	
Polarization	Linear polarization	
Dimensions (L×W×H)	797 x 394 x 251mm (LxWxH)	
Weight (kg)	47kg	

Expansion Options

	Wavelength tuning range	Peak conversion efficiency
Second harmonic generation module	315 - 630nm	≥2.4%
Third harmonic generation module	210 - 315nm	≥0.8%
Mid-infrared extension module	2500 - 10000nm	> 3%@3000nm
Remaining weight (kg)	24kg (Water-cooled machine) +17kg (frequency doubling)	
Power supply requirements	AC 220V/10A; 24V DC power supply, motor drive power supply, total power ≤ 150W.	
Power supply requirements for the water-cooled machine water-cooled machine	CWUP-10AI; operating voltage 220V; operating current 0.6-5.6A; rated power 1.02kW; cooling capacity 0.75kW	