

AURORA-H-DATASHEET

Parameter	AURORA-H-HP	AURORA-H-HE
Tuning range	650 – 900 nm (Signal)	
	1200 – 2600 nm (Idler)	
Maximum pump power	80 W	
Maximum pump energy	10 - 200μJ	200 - 2000μJ
Peak conversion efficiency	> 10% (Signal + Idler)	
Second harmonic Generation (515 nm) conversion efficiency	> 35 %	
Spectral bandwidth	200 – 750 cm ⁻¹ @ 650 – 900 nm	
Pulse duration after compressor	< 55 fs @ 800 – 900 nm	
	< 70 fs @ 650 – 800 nm	
	< 100 fs @ 1200 – 2000 nm	
Compressor transmission	> 65% @ 650 – 900 nm	
	> 80% @ 1200 – 2000 nm	
Long-term power stability	< 1.5% @ 750 nm@ 8h	
Pulse-to-pulse energy stability	< 1.5% @ 750 nm	
Typical pulse duration before compression	120 - 250 fs	
Dimensions (L×W×H)	740 x 408 x 222mm (LxWxH) (Compressor not included)	
Weight (kg)	47kg	
Remaining weight (kg)	32kg (Compressor) +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	