

AURORA-IR-DATASHEET

Parameter	AURORA-IR-HP	AURORA-IR-HE
Tuning range	1400 – 2000 nm (Signal)	
	2100 – 4200 nm (Idler)	
Maximum pump power	80W	
Pump pulse energy	12 – 400 μ J	400 – 2000 μ J
Conversion efficiency ¹ @1550nm	> 9%, 30 - 2000 μ J pump energy	
	> 6%, 12 - 30 μ J pump energy	
Spectral bandwidth	50 - 150cm ⁻¹ @ 1450 - 2000nm	
Long-term power stability (8h) ²⁾	< 2% @ 1550nm	
Pulse-to-pulse energy stability (1min) ²⁾	< 2% @ 1550nm	
Dimensions	800 × 395 × 254mm (L×W×H)	
Weight	52kg	

Expansion Options

Tuning Range	4000 - 16000nm (DFG)
Conversion Efficiency ¹⁾	> 0.3% @ 10000nm, 30 - 2000 μ J pump energy
	> 0.2% @ 10000nm, 12 - 30 μ J pump energy
Output Pulse Bandwidth	50 - 120cm ⁻¹ @ 5000 - 8000nm
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 \leq 150W
Power supply requirements for the water-cooled machine	CWUP-10AI; operating voltage 220V; operating current 0.6-5.6A; rated power 1.02kW; cooling capacity 0.75kW