

Orion 80 Datasheet

Specification	Orion-343-30	Orion-515-30	Orion-515-80	Orion-1030-50	Orion-1030-80
Central Wavelength	343 ± 1nm	515 ± 3nm		1030 ± 5nm	
Output Power	30W @ 1MHz	30W @ 200kHz	80W @ 200kHz	50W @ 200kHz	80W @ 200kHz
Repetition Rate	1Hz - 2MHz				
Pulse Energy	30μJ	150μJ	400μJ	250μJ	400μJ
Power Stability	< 2.0% (8 hours, RMS)	< 1.5% (8 hours, RMS)		< 1.0% (8 hours, RMS)	
Pulse Duration	< 500fs		< 550fs	< 600fs	
Beam Quality	TEM ₀₀ , M²≤1.3				
Beam Roundness	>85%	>90%			
Beam Diameter	2.5 ± 0.5mm	2.0 ± 0.5mm	2.5 ± 0.5mm		
Burst Pulse Number	1	1 - 3		1 - 10	
Dimensions	800 x 432 x 149mm				
Trigger Mode	PSO / POD / Gate mode, and TTL trigger				
External Power Control	0 - 5V, linear control				
Warm-up Time	≤ 15 min				
Power Supply	AC100 - 240V / 50 - 60Hz				
Operating Humidity	< 60% RH @ 25°C				
Operating Temperature	22 - 30°C				
Cooling Method	Water circulation cooling				