

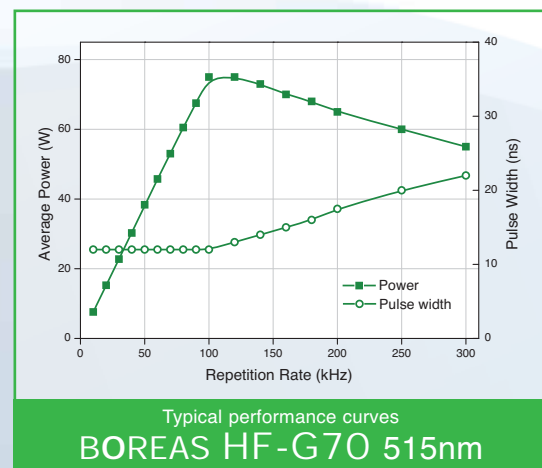
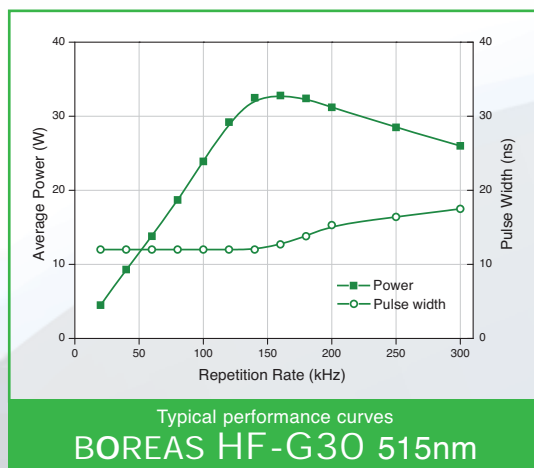
BOREAS

HIGH POWER SHORT PULSE FIBER LASER



GREEN 515 nm

Laser characteristics	HF-G15	HF-G30	HF-G70
Average power	>15W @ 60Khz	>30W @ 120kHz	>70W @ 100kHz
Repetition rate	10 to 150kHz	20 to 300kHz	20 to 300kHz
Energy per pulse	Up to 0.2mJ	Up to 0.2mJ	Up to 0.75mJ
Pulse width	12ns @ 60kHz	12ns @ 120kHz	15ns @ 100kHz
Beam quality	$M^2 < 1.3$	$M^2 < 1.3$	$M^2 < 1.5$
Beam diameter ($1/e^2$, mm)	1mm	1mm	1mm
Beam divergence (FA, mrad)	0.6mrad	0.6mrad	0.8mrad
Polarization		> 99% linear	
Beam pointing stability		< 10 μ rad	
Pulse to pulse stability		< 5% RMS	



Operation characteristics	HF-G15	HF-G30	HF-G70
Laser size / Weight	B-Type / 20kg	B-Type / 20kg	D-Type / 40kg
Power supply size / Weight	19 inch rack - 5U / 25kg		
Cooling type	Water 5l/min, 3 bars between 18°C and 30°C		
Power Consumption	500W	1000W	1500W
Power requirement	90-240 V AC / 50-60Hz		180-240 V AC / 50-60Hz