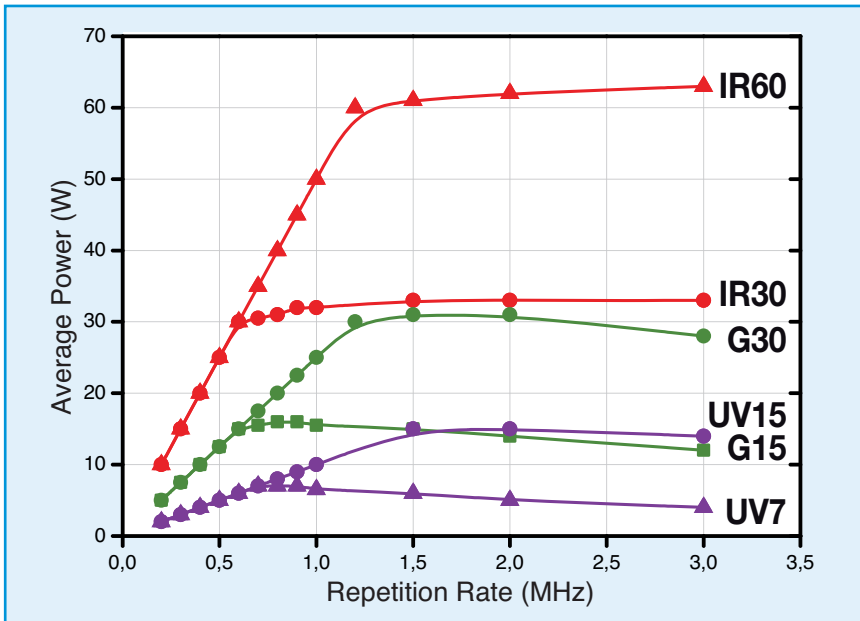


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HIGH POWER FIBER LASER**

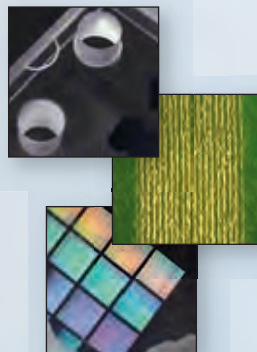


Key Features

High Power	up to 60 W	at	1030 nm
	up to 30 W	at	515 nm
	up to 15 W	at	343 nm
Short pulse duration	< 50 ps		
Very high peak power	up to 1 MW peak power at 1030 nm		
Excellent beam quality	$M^2 < 1.2$ over full repetition rate		
Superior power stability	2% over 8 hours		
Burst mode operation			

Applications

- CIGS ablation
- Transparent material cutting
- Wafer processing
- High speed industrial ablation
- LED and FPD processing



Various Options

- Beam shaping
- Multiple wavelength delivery
- Specific integration design

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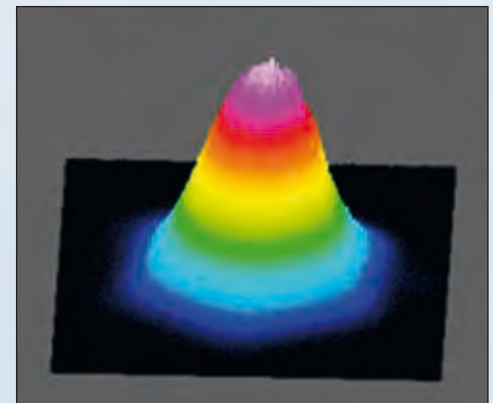
IR 1030 nm	IR30-50P	IR60-50P
Max average power	30 W	60 W
Max energy per pulse	50 μJ up to 600 kHz	50 μJ up to 1.2 MHz
Pulse duration	50 ps	50 ps
Repetition rate	Single shot to 3 MHz	

Green 515 nm	G15-50P	G30-50P
Max average power	15 W	30 W
Max energy per pulse	25 μJ up to 600 kHz	25 μJ up to 1.2 MHz
Pulse duration	< 50 ps	< 50 ps
Repetition rate	Single shot to 3 MHz	

UV 343 nm	UV7-50P	UV15-50P
Max average power	7 W	15 W
Max energy per pulse	10 μJ up to 700 kHz	10 μJ up to 1.5 MHz
Pulse duration	< 50 ps	< 50 ps
Repetition rate	Single shot to 3 MHz	

Laser characteristics	All models
Laserhead size and Weight	1000 x 195 x 150 mm and 35 kg
Power supply size and Weight	19 inch 6U rack - 483 x 266 x 605 mm and 33 kg
Beam quality	M ² < 1.2 for all repetition rate
Polarization	Linear > 99 %
Power stability	< 2 % RMS over 8 hours
Pulse to pulse stability	< 3 % RMS (1σ)
Beam stability	< 5 % beam divergence RMS (1σ)

OPTIONS
External Shutter, Multispectral, other pulse duration (15ps, 30ps)



Beam profile M² < 1.2

