

FLAST-Nano

Nanosecond Fiber Laser Module



APPLICATIONS

- Surface treatment
- Material processing
- Marking
- Color marking
- Engraving
- Cutting
- Etching
- Trimming
- Lithography
- Target illumination
- Coating removal
- Texturing
- Scribing

ADVANTAGES

- Proprietary design of FiberLAST
- Single beam mode quality
- Average power up to 100W
- High peak intensity
- Independently adjustable pulse width and frequency
- Air cooled
- High plug efficiency
- Maintenance free
- OEM solutions
- Customer oriented solutions
- Compelling technical support

OPTIONS

- Burst mode
- Pulse on demand
- Customer defined control interface
- Customer specified delivery fiber cable length
- Extended warranty
- Customized laser output beam diameter
- Integrated red guiding beam
- Special mechanical design developed for operating under harsh environmental conditions

FiberLAST Fiber Laser Systems and Technologies' first mandate is to completely fulfill any customer requirement for any laser demand and need. Dedicated R&D processes, innovations and continually new achievements are the main goals of our company. The outstanding leadership in our sector is granted not only by the success of the classic high power nanosecond, picosecond, femtosecond pulsed fiber lasers as well as CW fiber laser products, but also through an extended and wide customizable features which places no limits to our technological capabilities.

FLAST-Nano fiber laser modules are fully committed to match OEMs and are dedicated to the laser system integrator, secure sealed for operating under the most difficult conditions. The usage ranges from industrial to scientific application purposes.

FLAST-Nano offers independent adjustment of several vital parameters such as pulse width and pulse frequency by its unique MOPA design which leads to the possibility to customize and optimize the laser material processing.



2013 Parlar Foundation Technology Incentive Award
2013 TESİD Creative Idea Award
2012 TÜBİTAK Technology Award

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NEW

FLAST-Nano
100W

LASER	FLAST-Nano 20W	FLAST-Nano 25W	FLAST-Nano 30W	FLAST-Nano 40W	FLAST-Nano 50W	FLAST-Nano 100W
Laser type	Yb fiber laser					
Mode of operation	Pulsed (MOPA architecture)					
Wavelength	1064 ± 2 nm					
Average power ⁽¹⁾	20W	25W	30W	40W	50W	100W
Repetition rate ⁽²⁾	40-500 kHz	50-500 kHz	60-500 kHz	80-500 kHz	100-500 kHz	100-500 kHz
Pulse width ⁽²⁾	20-500 ns	25-500 ns	30-500 ns	30-500 ns	40-500 ns	200 ± 20 ns
Pulse energy	0.5 mJ					1 mJ
Power stability	< %2					
Beam quality	M ² < 1,2					
Polarization	random					
Laser output ⁽³⁾	collimated with isolator					
Guiding beam	630-670 nm (red)					
Galvo input diameter ⁽³⁾	10 mm					
Laser output beam diameter ⁽³⁾	7,5 ± 0,5 mm					
Output fiber length ⁽³⁾	2 m					

OPERATION

Operating voltage	24 VAC					NA
Max. power consumption	275W	275W	300W	350W	400W	NA
Operating temperature	+10°C ~ +60°C					
Humidity, not condensing	10% ~ 90%					

DIMENSIONS AND WEIGHT

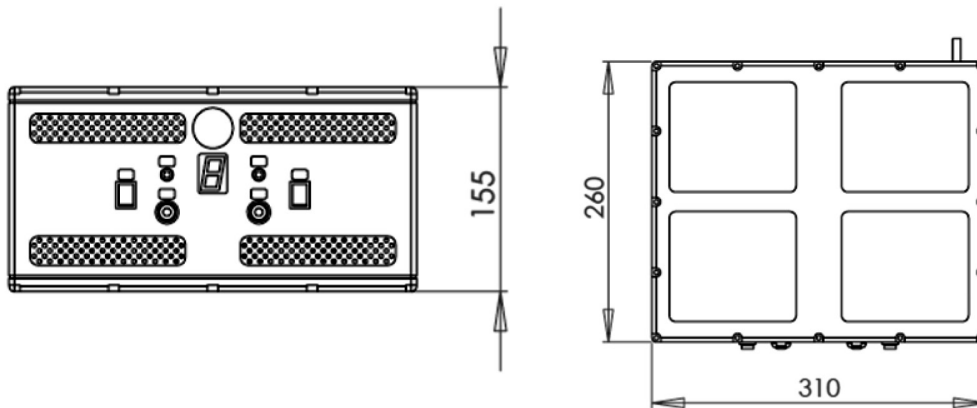
	20-50W model	100W model
Height x length x depth (mm)	155 x 310 x 260	NA
Weight (kg)	8	NA

⁽¹⁾ Available with 5W increments for up to 50W.

⁽²⁾ Independently adjustable of each other.

⁽³⁾ Other options available upon request.

All specifications are subject to change & updates without notice.



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