

# FLAST-Constant

## Fiber Laser Modules

FiberLAST – Fiber Laser Systems and Technologies first mandate is to completely fulfill any customer requirement on any kind of laser demand and need. Through dedicated R&Ds processes, innovations and always 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 laser as well as CW fiber laser products but even from an extended and wide customizable features which places no limits to our technology capabilities. As evidenced to the faith of our growth over the past two years we have been winning three technological awards that do not represent a point of arrival but a new starting point.

**FLAST-Constant** CW fiber laser represents single mode fiber laser of near infrared spectral range. Any shape can be easily cut burns-free with

a fast and microscopically precision, from the most multifarious flat to multi-dimensional down to tubular cast. The micro-cutting capabilities are a must completely achieved by the **FLAST-Constant** that has in its own built flexible design and technical architecture one of the main outstanding feature. **FLAST-Constant** Series represent the most advanced fiber laser technology on market, with its proprietary design of FiberLAST® and with a deep investment on R&Ds are constantly in an improving stage. The tightly focused laser beam resulting from a high beam quality characterizes **FLAST-Constant** series. The prime quality materials in conjunction with a strong and robust shell make the machine modular and totally matching the industrial standards granting at the same time a reliable maintenance free scenario and a more than expected operational life time.

### APPLICATIONS

- Cutting
- Engraving
- Material processing
- Welding
- Drilling
- Soldering
- Micromachining

### ADVANTAGES

- Proprietary design of FiberLAST
- Customer oriented solutions
- Single mode beam quality
- Customized interface
- Small footprint
- High efficiency
- Maintenance free
- OEM solutions
- Very compact air cooled

### OPTIONS

- Customer defined control interface
- Customer defined delivery fiber cable lengths
- Extended warranty
- Integrated red pointer
- Customer oriented designs & production



**FiberLAST**

Winner of the TUBITAK 10th Technology (2012),  
Winner of the TESID Creative Idea Award (2012) and  
Winner of PARLAR Technology Incentive Award (2013)

# FiberLAST

LASER	FLAST-Constant 50W	FLAST-Constant 100W	FLAST-Constant 150W	FLAST-Constant 200W	UNIT
Laser type	Yb-doped fiber laser				
Mode of operation	continuous wave				
Wavelength	1060±1				nm
Bandwidth	1				nm
Average power	50	100	150	200	W
Output power stability	< % 5				
Beam quality (M <sup>2</sup> )	< 1,2				
Polarization	random				
Laser output <sup>(1)</sup>	QBH connector				

## Electrical Specifications

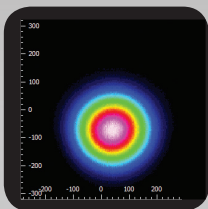
Input voltage	24±1				V(DC)
Power consumption	200	350	500	700	W

## Environmental Conditions

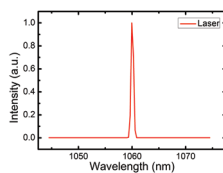
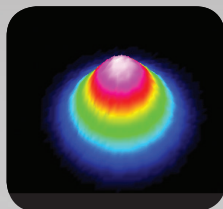
	Minimum	Maximum	
Operating temperature	+15	+35	°C
Storage temperature	+10	+60	°C
Humidity	%10	%90	

<sup>(1)</sup> Can be customised according to request

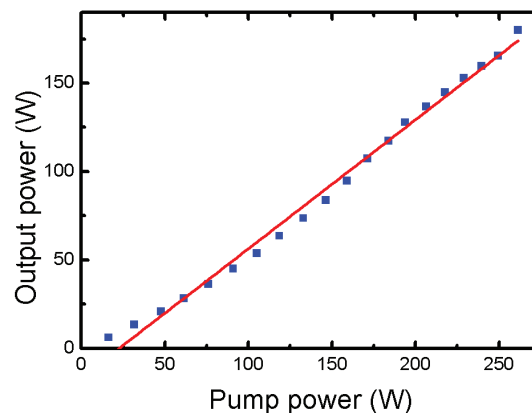
All specifications are subject to change & updates without notice.



CW Beam Profile



CW Beam Spectrum



CW Output Power



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