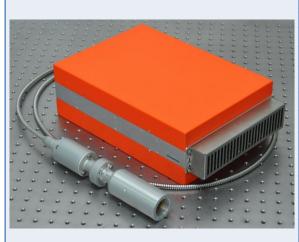


IFL-30P-LM-L

30W Smart Pulse Fiber Laser

Smart Fiber Laser (L-series) is design with integrated cooling and iLuma's unique SRS suppression technology. Based on MOPA technology, Smart Fiber Laser gives 1mJ pulse energy with the maximum peak power over 20KW. Without the waveform selection, the pulse width is automatically reduced from 350ns in repetition rate of 20KHz down to 10s ns in repetition rate of over 200KHz so that the optimized peak power can be given over the operation range. This features makes the L series fiber laser the choice laser source for normal metal marking, plastic marking, resistor triming and anodised Al black marking.

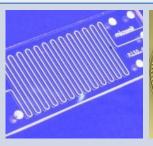


Features:

- ✓ Same Interface with Q-Switch Fiber Laser
- ✓ Peak power up to 22KW
- ✓ Operation Range from 1KHz* to 800 KHz
- ✓ Pulse Width Self-reduced when rep rate up
- ✓ Beam Quality M² < 2
- √ Max. Pulse Engery>1mJ
- ✓ Peak Power in 200KHz> 10KW
- ✓ 2 years warranty
- ✓ Optimised Peak Power over all Rep Rates
- ✓ Integrated Isolator with Beam Delivery Optics
- ✓ SCSI Hardware and RS-232 Software Control
- ✓ Real time monitoring & Shutdown Protection

Applications:

- ✓ Metal Marking, Color Marking
- ✓ Black Marking on Anodized Al
- ✓ Ceramic Marking, hole drilling
- ✓ Poly-compounds Marking
- ✓ IC Marking
- ✓ Ceramic Scribing and Cutting
- ✓ Mono silicon, Poly silicon Processing
- ✓ Resistor Trimming
- ✓ Solar Cell Scribing
- ✓ ITO Film removal
- ✓ Hole drilling

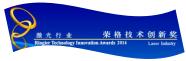








*Single Shot and pulses on demand available





Product Specification:

Product Mane	20W Smart	30W Smart	50W Smart *			
Product Code	IFL-20P-LM-L-1	IFL-30P-LM-L-1	IFL-50P-LM-L-1			
Average Power	20W	30W	50W			
Central Wavelength	1060 ± 5 nm	1060 ± 5 nm	1060 ± 5 nm			
Pulse Duration	15ns-350ns	15ns-350ns	15ns-350ns			
Max Peak Power	20KW	22KW	22KW			
Full Power of Rep rate	21 - 800kHz	32 - 800kHz	50 - 800kHz			
Output Power Stability	5%	5%	5%			
Max Pulse Engergy	1mJ	1mJ	1mJ			
Beam size	5– 8mm	5 – 8mm	5 – 8mm			
M ²	≤ 2	≤ 2	≤ 2			
Polarization	Random	Random	Random			
Length of cable	2 m	2 m	2 m			
Weight of Module	< 6kg	< 6kg	< 6kg			
Dimention of Module	360 x 210 x 100 mm	361 x 210 x 100 mm	362 x 210 x 100 mm			
Operation Temp.	5°C - +55°C	5°C - +55°C	5°C - +55°C			
Storage Temp.	—10°C - + 70°C	—10°C - + 70°C	—10°C - + 70°C			

^{*} will be launched in end of year 2014

Product Order Code:

Co.,	-	Average Power	-	Beam Quality	-	Pulse Feature	-	Wavelength	-	BET		
Code		Code		Code		Code		Code		Code		
IFL	-	15P	-	SM	-	N	-	1	-	А		
	-	20P	-	LM	-	S	-	2	-	В		
	-	30P	-	HM	-	Р	-	3	-	С		
	-	40P	-		-	С	-	4	-	D		
		500C			-	L	-		-	Е		
Notes		15P-15W Pulse		SM-Single Mode		N- Pulse, 4ns-350ns,		1-1060nm		A- Without BET		
		20P-20W Pulse		LM-Low Mode		S-Short Pulse, 1.5ns-10ns		2-1550nm		B- 3 X BET		
		30P-30W Pulse		HM-Multi-Mode		P-ps Pulse, 700ps-10ns		3-532nm		C- 5X BET		
		500C-500W CW				C-CW/Modulation		4-2000nm		D- 7X BET		
						L-Smart ns Pulse				E- 9X BET		
Example		Product Code		Description								
1	IFI	L-20P-LM-N-1-D		20W Pulse (1060nm), low mode , M2<2, Pulse Width 4ns-350ns, With 7X BET								
2	IFI	L-20P-SM-S-1-B		20W Pulse (1060nm), Single Mode, M2<1.3, Pulse Width 1.5ns-10ns, With 3X BET								
3	IFI	L-20P-SM-P -1-C		20W ps Pulse(1060nm), Single Mode, M2<1.3, Pulse Width 700ps-10ns, With 5X BET								

