

# YLS-SMx SERIES

## Power Beaming Lasers

Up to 30 kW of CW Power  
High Brightness Beam



**NEW**



### FEATURES

- ▶ Up to 30 kW Average Power
- ▶ High Brightness Beam
- ▶ High Wall-plug Efficiency
- ▶ Maintenance-free Operation
- ▶ Modular 'Plug & Play' Design
- ▶ Compact, Rugged & Easy to Install



### APPLICATIONS

- ▶ Directed Energy
- ▶ Power Beaming
- ▶ Remote Materials Processing

IPG **YLS-SMx** Series Ytterbium fiber laser provide 30 kW of continuous power in low order beams with low divergence. **YLS-SMx** lasers feature dynamic power modulation range from 10% to full power up to 5 kHz with no change in beam divergence or beam profile. The **YLS-SMx** lasers are designed for advanced applications requiring high power and brightness such as directed energy, power beaming and remote materials processing.

# YLS-SMx SERIES

## Power Beaming Lasers

Optical Characteristics	YLS-15000-SM3	YLS-20000-SM4	YLS-20000-SM7
Wavelength, nm	1075 ±5		
Mode of Operation	CW/modulated		
Modulation Frequency, kHz	0 - 5		
Maximum Average Power, kW	15	20	30
Power Tunability, %	10-100		
Power Stability*, %	±2		
Beam Quality, M <sup>2</sup>	M <sup>2</sup> <2.5	BPP<1.2, 1.0 typ.	BPP<2.0, 1.6 typ.
Beam Divergence, mrad	<150	<90	<95
Output Fiber Length, m	2 - 4		

\* Over 4 hours, T=const

General Characteristics	YLS-15000-SM3	YLS-20000-SM4	YLS-20000-SM7
Cabinet Dimensions (W × D × H), mm	1008 × 808 × 1055		1008 × 808 × 1380
Weight, kg	650		1000
Supply Voltage, 3-phase, VAC	400-480		
Power Consumption, kW	<68, typ. 59	<65, typ. 55	<95, typ. 85



[IPGPhotonics.com/contact](http://IPGPhotonics.com/contact)  
[www.ipgphotonics.com](http://www.ipgphotonics.com)

MAX. AVERAGE OUTPUT POWER: 60 kW  
 WAVELENGTH RANGE: 900-1000 nm

DANGER - INVISIBLE LASER  
 RADIATION AVOID EYE OR SKIN  
 EXPOSURE TO DIRECT OR  
 SCATTERED RADIATION  
 CLASS 4 LASER PRODUCT

IEC 60825-1:2014

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