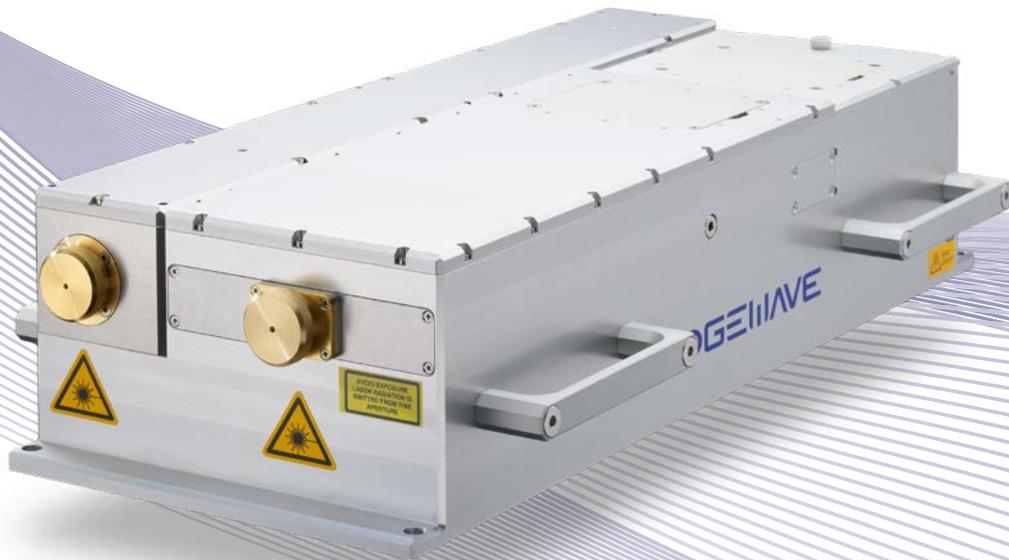


# IS-Series

Short Pulse InnoSlab Lasers

EDGEWAVE

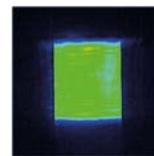
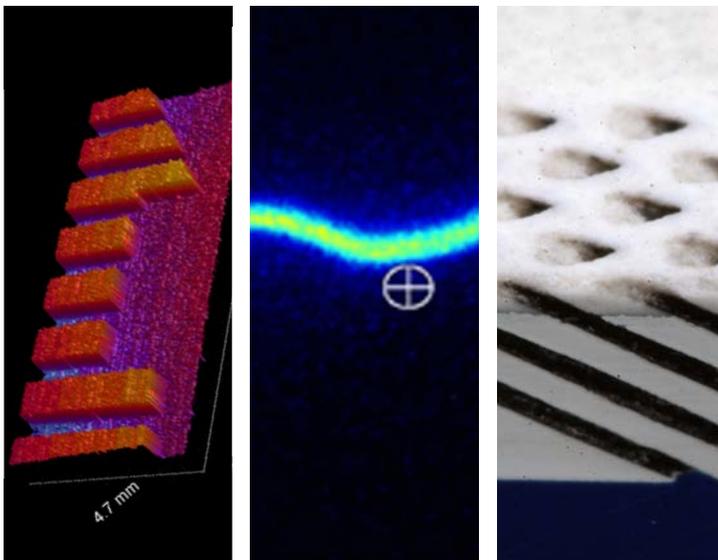


## Favourable Applications

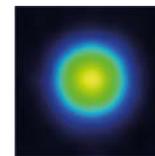
- plasma generation
- ablation, structuring and scribing
- glass milling, drilling and cutting
- tool making
- solar cell processing
- pumping of dye laser, OPA, OPO
- PIV and LIF

## Unique Features

- short pulse
- high pulse energy
- high peak power
- high repetition rate
- compact setup
- flexibility on crystal choice
- tailored beam profile



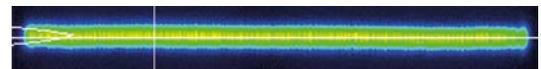
square top-hat



circular gaussian



rectangular top-hat



line shaped top-hat

## Overview of IS-Series

Model	ISxxx-1	ISxxx-2	ISxxx-3	ISxxx-4
Wavelength [nm]	IR	Green	UV	DUV
Highest beam quality M <sup>2</sup>	1.1	1.1	1.1	1.1
Max. average power [W]	400	200	70	20
Max. repetition rate [kHz]	100	100	15	15
Max. pulse energy [mJ]	60	30	15	4
Min. pulse width [ns]	6	5	5	5
Energy stability [%] rms	< 2	< 4	< 4	< 4
Timing stability [ns]	< 2	< 2	< 2	< 2
Polarisation	> 100:1	> 100:1	> 100:1	> 100:1
Beam ellipticity (far field) [%]	< 10	< 10	< 10	< 10
Diameter at window [mm]	3	3	3	3
Full divergence angle [μrad]	500	250	250	225
Point stability [μrad]	< 50	< 50	< 50	< 50
Warm-up time from cold start [min]	15	30	30	30
Warm-up time from standby [min]	10	15	30	30

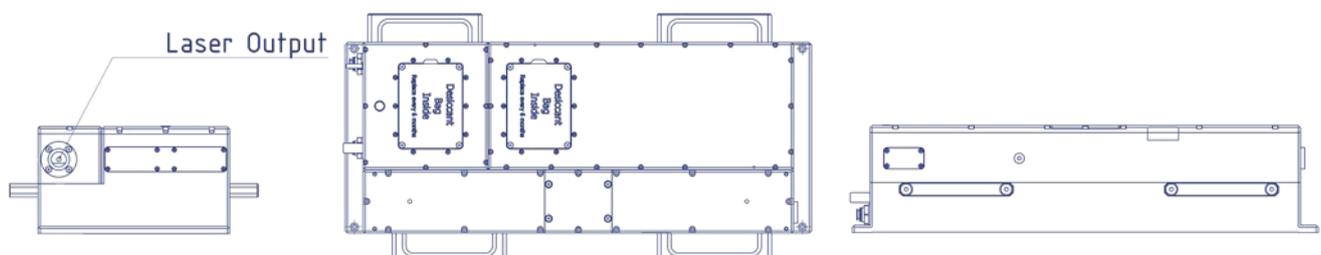
## Utility & Ambient Requirements

Power supply	90 V-264 V or 180-264 V, 50/60 Hz
Power	1 kW-4 kW
Chiller	230, 208, 115, 100 V, 50/60 Hz
Power	1 kW-4 kW
Operation ambient temperature	15 °C-35 °C
Relative humidity, non-condensing	10 %-80 %

## Dimensions & Weights

Laser head	650 mm x 178 mm x 150 mm
Supply incl. chiller	19" x 11 HU x 700 mm
Laser head	20 kg-45 kg
Supply incl. chiller	< 68 kg

EdgeWave follows a policy of continuous product improvement. Specifications are subject to change without notice.



EdgeWave GmbH  
Carlo-Schmid-Straße 19  
52146 Würselen, Germany

+49 2405 4186 0  
info@edge-wave.com

www.edge-wave.com