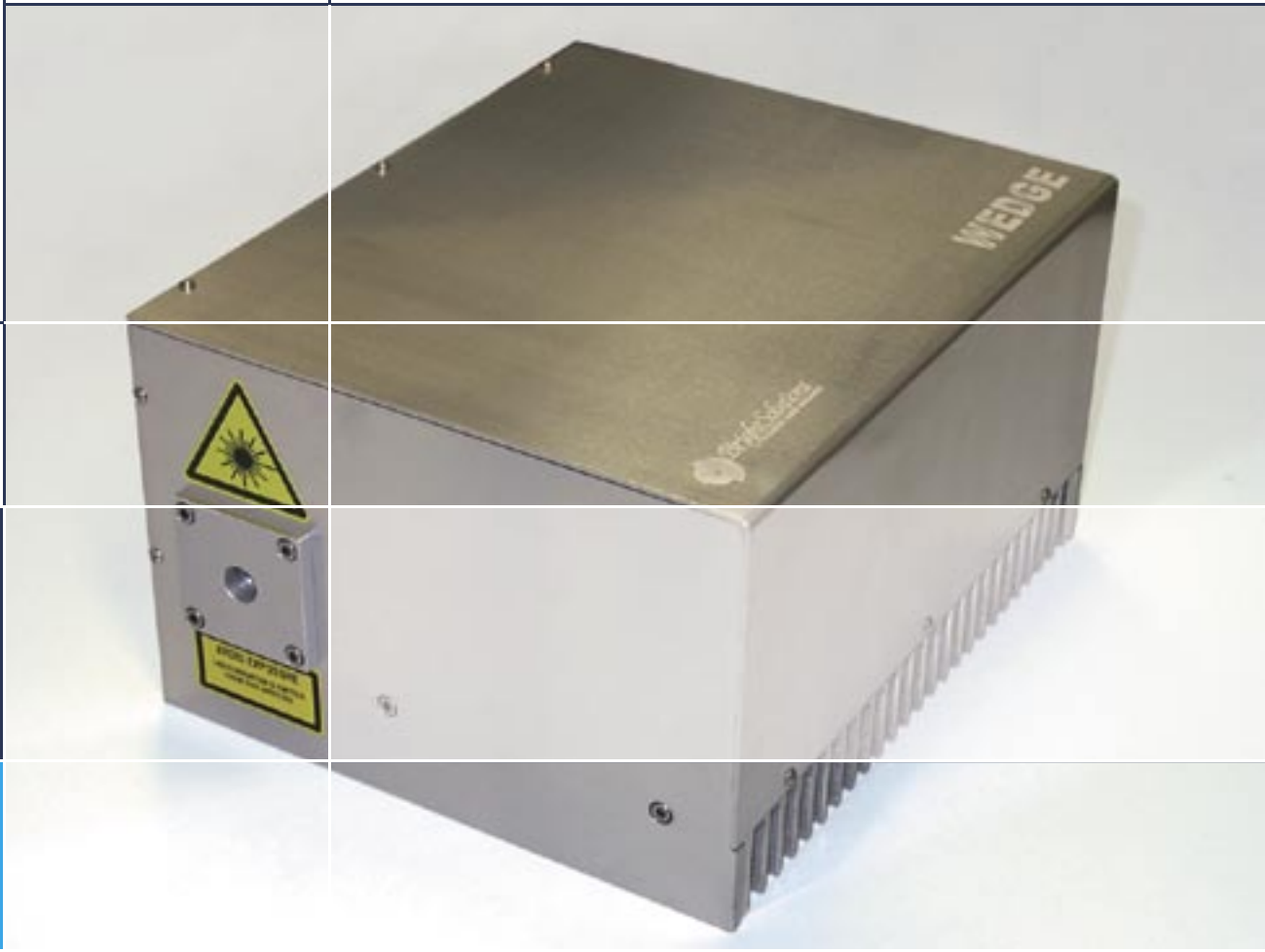




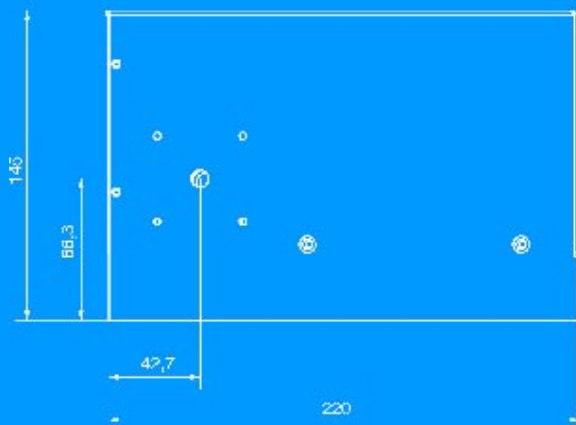
WEDGE

High Peak Power Diode Pumped Solid State Laser

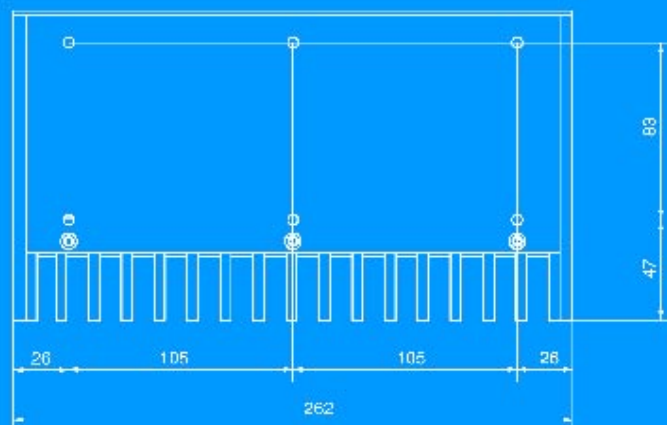
- > All solid state design
- > Patented Polarization-Switching Technology
- > Less than 2 ns pulse duration
- > Up to 1 MW peak power
- > Low heat waste, air cooling



Laser output side



M6 mechanical mounting holes



Applications:

- > Nonlinear spectroscopy
- > 2nd to 4th harmonic generation
- > Visible to IR OPO pumping
- > Material processing
- > Surface and intra-volume glass marking

WEDGE emits 1.5 mJ at 1064 nm with a pulse duration shorter than 2 ns and peak powers in the range 0.5 to 1 MW. Based on a proprietary electrooptic Q-switching technology, this monolithic laser source features a very high peak power with good wall plug efficiency. The sealed miniaturized laser head is insensitive to vibrations and harsh environments. High output peak power with relatively low q-switching energy allows efficient nonlinear harmonic or parametric generation as well as interaction with a wide range of materials, including processing of transparent materials. Second harmonic at 532 nm and third harmonic at 355 nm are optionally available.

Bright Solutions Soluzioni Laser Innovative srl

<http://www.brightsolutions.it>
info@brightsolutions.it

Via Artigiani 27 - 27010 Cura Carpignano (Pv), Italy
 T +39 0382 583091 - F +39 0382 583690

Output Energy	1.5 mJ
Wavelength	1064 nm
Pulse duration	< 2 ns
Repetition Frequency	Single Shot to 1 kHz
Polarization	100:1
Energy Stability	± 1%
Power Requirements	15V dc 6A
Cooling	Air cooled