

ANTARES

High repetition rate, narrow linewidth picosecond fiber laser



ANTARES produces high average power with short (10 ps) pulses at repetition rates ranging from 20 MHz to 80 MHz, in a compact and robust format. Offering one of the World's lowest cost of ownership, high precision and easiness of integration, ANTARES is ideally suited for industrial and scientific applications such as OPO pumping.

Integrating state of the art high-power fiber amplifiers, ANTARES offers remarkable spectral, temporal and spatial quality at high energy and high average power.

ANTARES embeds perfectly into any kind of systems working in a 24/7 operating environment, year-wide. Its very reduced footprint, weight and capital investment make it the money-maker you need.



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ANTARES Key Features

- 20 W at 1064 nm
- QCW – 10 ps
- High repetition rate
- Narrow linewidth
- $M^2 < 1.2$
- Low timing jitter
- Compact package
- Rugged design
- Plug-and-play
- Maintenance free

ANTARES applications

- Efficient pumping of OPO
- Semiconductor industry
- Medical & Bio-Medical

Technical Specifications*

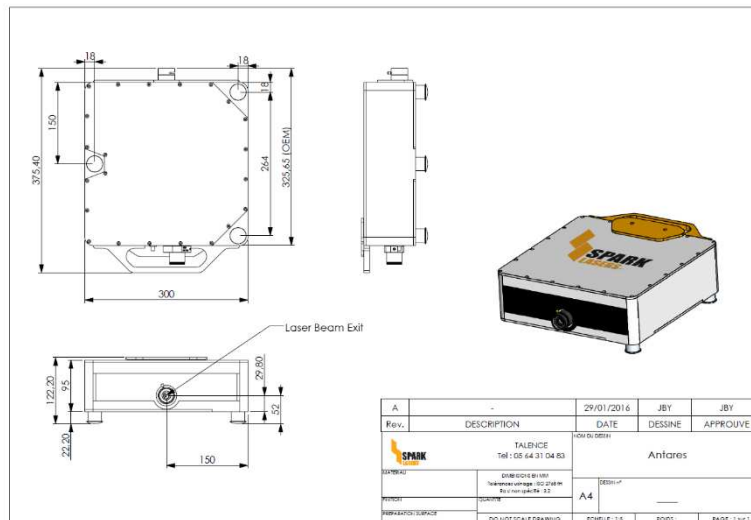
Model	ANTARES-IR	ANTARES-GR**
Wavelength	1064 nm or 1030 nm	532 nm or 515 nm
Spectral width	< 1 nm	< 1 nm
Pulse duration ¹	< 10 ps	<10 ps
Max. average power	20 W	10 W
Repetition rate ²	80 MHz	80 MHz
M ²	<1.2	<1.2
Beam waist diameter	1 mm	1 mm
Beam pointing	<25 µrad/°C	<25 µrad/°C
Ellipticity	>0.9	>0.9
Warm-up time	< 15 min	< 15 min
Power stability	<2% RMS	<4% RMS
Pulse stability	<2% RMS	<4% RMS
Polarization ³	Vertical, >100:1	Vertical, >100:1
Power control	From 0 to 40 W	From 0 to 40 W
Laser head dimensions (mm ³)	300 x 300 x 80	300 x 300 x 80
Laser controller dimensions	19"/3U rack	19"/3U rack
Standard umbilical length ⁴	3 m	3 m
Power consumption	100 to 240 VAC < 400 W	100 to 240 VAC < 400 W
Cooling	Air cooled	Air cooled

1. Other pulse durations available upon request
2. Other repetition rates available upon request.
3. Direction of linear polarization is factory set depending on the user needs.
4. Can be upgraded up to 10 m, contact us for more details

* Specifications subject to change without notice.

** Other wavelengths available upon request

For custom specifications, please contact us



SPARK LASERS offers a 24-month warranty for all SIRIUS laser range.

For full details of this warranty coverage, please refer to our website www.spark-lasers.com or contact us at +33 564 310 484



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